

Sert Actionalisties	Snd	File View Window							
Sart Abbonsteds Sart S	Ser Achonstedge DeviceNume DeviceNum		لغفا						
DeviceName	DeviceName						Delete		
DeviceName Devices Processing Devices Devices	DeviceName Dev	0				Alarm	S		٥
Fig.	1.5 1.5	TimeStamp	1		Acknowledge	Event			
Piegh Piegh Act	Devic PiEPM	697/674K 10.58.01		1	Ack	Long Time Ov	ercurrent	5 458758.6000080009000	
PLEPM Under Cyf Trip	PiEPM UnAck Instantoneous O/C Trip 5 458758 0000000000000000000000000000000000	02/06/96 10:28:11	1	PLEPM	Ack	Short Time O	/C trip	5 458758.0000080009000	
DeviceName Device Device	Piete Unack G/f Irp 5 458758 00000800090000	02/06/96 10:28:20	bwb 1	PLEPM	UnAck	Instantaneous	0/C Trip	5 458758.0000080009000a	
Purple P	PLEPM UnAck Coff inst Trip 5 458758 0000080009000		pwb 1	PLEPM	UnAck	G/F Trip		5 458758 0000080009000a	
Pub. PLEPH Under	Pieps		pwp 1	PLEPM	UnAck	C/F Inst. Trip		5 458758.000080009000a	
Pub Pub	PHEPM Under Unde		Dwb 1	PLEPM	UnAck	Voltage Unbah	ance Inp	5 458758 00000800090000	
PhEPM UnAck Remote Ober Unack UnAck Remote Ober UnAck Remote Ober UnAck Remote Ober UnAck UnAck Remote Close Event UnAck UnAck Remote Close Event UnAck Un	Pub. Pt FM		Dwb 1	PLEPM	UnAck	0/v 1rep		+ 458758 U00008000000	
bwb_1 PLEPM Undex L-turnal Reny '-tyle-Strik formional/shoods bwb_1 PLEPM Undex L-turnal Reny of Date Levit '-tyle-Strik formional/shoods bwb_1 PLEPM Undex Remote Object Levit '-tyle-Strik formional/shoods bwb_1 PLEPM Undex Current Unbalance Alarm '-tyle-Strik formional/shoods bwb_1 PLEPM Undex Current Unbalance Alarm '-tyle-Strik formional/shoods bwb_1 PLEPM Undex Dower Reversal Alarm '-tyle-Strik formional/shoods bwb_1 PLEPM Undex Current Unbalance Alarm '-tyle-Strik formional/shoods twsp_2 Full FPM Undex Current Unbalance Alarm '-tyle-Strik formional/shoods twsp_2 Full FPM Undex Current Unbalance Alarm	bwb_1 PLEPM Under L-turnol fets, 7-ty ************************************		bwb_1	PIEPM	UnAck	U/v Inp		5 458756 000008000000	
bwb_1 PLEPM UnAck Revisite Open Livent 1.4746 OxidoBal00200000 bwb_1 PLEPM UnAck Revisite Close Livent 1.43478 0x00080090000 bwb_1 PLEPM — Current Unbalance Alarm 1.45478 0x00080009000a bwb_1 PLEPM — Volt Unbalance Alarm 5.45878 0x00080009000a bwb_1 PLEPM — O/V Alarm 5.45878 0x00080009000a bwb_1 PLEPM — Power Reversal Alarm 5.45878 0x00080009000a RMS9D EM/TD UnAck Current Unbalanced Trip 5.458758 0x00080009000a f bwb_1 PLEPM Unknown Event 5.458758 0x00080009000a f bwb_1 PLEPM Unknown Event 5.458758 0x00088009000a	bwb_1 PLEPM UnAck Remote Open Lent 1-4/5 A (Minholos) (Minholos		Dwb. I	PLEPM	UnAck	taternol Reio,	-	1, 45£ 758 G(X)(0,080,090)	
bwb_1 PLEPM Unack Remote Close Event 1 458/58 0x000800000000 bwb_1 PLEPM — Current Unhalance Alarm 1 458/58 0x000800090000 bwb_1 PLEPM — O/V Alarm 1 458/58 0x000800090000 bwb_1 PLEPM — O/V Alarm 5 458/58 0x000800090000 bwb_1 PLEPM — O/V Alarm 5 458/58 0x000800090000 Pwb_1 PLEPM — Current Unbalanced Trip 5 458/58 0x000800090000 RMS9D EMVTD Unknown Event 5 458/58 0x0000800090000 t RMS9D EMVTD Long Time Trip 5 458/58,00000800090000	bwb_1 PLEPM Under Remote Clase Event 3.42458 000008000300004 bwb_1 PLEPM — Current Undatabace Arim 3.42678 00000800030000 bwb_1 PLEPM — Volt Undatabace Arim 3.42678 00000800030000 bwb_1 PLEPM — UV/A Arim 5.42878 00000800090000 bwb_1 PLEPM — Power Reversal Arim 5.42878 00000800090000 RMS9D EMVID Undack Current, Unbalanced Trip 5.458758 00000800090000 thbwb_1 PLEPM — Long Time Trip 5.458758 0000080009000 thwbb_1 Long Time Trip 5.458758 00000800090000		bwb_1	PLEPM	UnAck	Remote Open	Lieni	000050000000000000000000000000000000000	
bwb_1 PLEPM — Current Unbalance Alerm : +154758 00000800030000 bwb_1 PLEPM - Volt Unbalance Alerm : +158758 00000800000 bwb_1 PLEPM — V/V Alarm 5 +58758 0000080009000 bwb_1 PLEPM — Power Reversal Alarm 5 +58758 0000080009000 RMS90 EMVTD UnAck Current Unbalanced Trip 5 +58758 0000080009000 t bwb_1 PLEPM Diknown Event 5 +58758 0000080009000 t bwb_1 PLEPM Unknown Event 5 +58758 0000080009000	PLEPM		bwb1	PLEPM	UrAck	Remote Clase	Lvent	5 47.57.58 000000800090000	
bwb_1 PLEPM Volt Unbalance Alarm 1 45 8758 0000080009000a bwb_1 PLEPM — 0 // Alarm 5 458758 000008000900a bwb_1 PLEPM — 0 // Alarm 5 458758 000008000900a bwb_1 PLEPM — Power Reversal Alarm 5 458758 000008000900a RMS9D EMVTD UnAck Current Unbalanced Trip 5 458758 000008000900a t bwb_1 PLEPM Unknown Event 5 458758 000008000900a t bwb_1 Long Time Trip 5 458758.000008000900a	bwb_1 PLEPM Volt Unbalance Alarm 5 438758 000008000900a bwb_1 PLEPM - 0/V Alarm 5 438758 000008000900a bwb_1 PLEPM - POwer Reversal Alarm 5 458758 000008000900a bwb_1 PLEPM - POwer Reversal Alarm 5 458758 0000080009000a RMS9D EMVTD Unhack Current Unbalanced Trip 5 458758 0000080009000a f bwb_1 PLEPM Unhanown Event 5 458758 0000080009000a f bwb_1 PLEPM Long Time Trip 5 458758 0000080009000a	02/06/96 10.29:03	bwb1	PLEPM	1	Current Unbot	ance Alcrin	: 153758 0000080000000	
bwb_1 PLEPM — 0/V Alarm 5 438738 000009000a bwb_1 PLEPM — U/V Alarm 5 458758 000009000a bwb_1 PLEPM — Power Reversal Alarm 5 458758 0000080009000a RWS9D EM/TD UnAck Current Unbalanced Trip 5 458758 0000080009000a f bwb_1 PLEPM Unknown Event 5 458758 0000080009000a f bwb_1 PLEPM Unknown Event 5 458758 0000080009000a	PLEPM	27/06/96 10:29:05	bwb1	PLEPM	i	Vall Unbaland	e Alaım	- ·	
bwb_1 PLEPM — U/V Alarm 5 458/78 00000000000 bwb_1 PLEPM — Power Reversal Alarm 5 458/78 000000000000 RMS9D EMVTD UnAck Current Unbalanced Trip 5 458/758 000000000000 DeviceName DeviceName Device Name Fvent f bwb_1 PLEPM Unknown Event 5 458/758 000000000000 f bwb_1 PLEPM Unknown Event 5 458/758 000000000000 f bwb_1 PLEPM Unknown Event 5 458/758 0000000000000	bwb_1 PLEPM — U/V Alarm 5 458758 00000800000 bwb_1 PLEPM — Power Reversal Alarm 5 458758 0000080009000 RMS90 EMVTD UnAck Current Unbalanced Trip 5 458758.0000080009000 t bwb_1 PLEPM Unknown Event 5 458758.0000080009000 t bwb_1 FLEPM Long Time Trip 5 458758.0000080009000	70.62.01 96/90/20	Dwb	PLEPM	1	0/v Alarm		\$ 458758 000008000000	
bwb_1 PLEPM — Power Reversal Alarm 5 4:8758 00000800090000 RMS9D EMVID Unknown Event 5 458758.0000800090000 7 RMS9D EMVID Long Time Trip 5 458758.00000800090000	bwb_1 PLEPM — Power Reversal Alarm 5 458758 0000080009000 RMS9D EMVTD UnAck Current Unbalanced Trip 5 458758 0000080009000 1 bwb_1 PLEPM Unknown Event 5 458758 0000080009000 7 RMS9D EMVTD Long Time Trip 5 458758 0000080009000	01.62.01 96/90/20	pwp 1	PLEPM	ı	U/V Alarm		45E	
RMS9D EMVTD UnAck Current Unbalanced Trip 5 458758.000080009000a DeviceName DeviceName Event 5 458758.000080009000a T RMS9D EMVTD Lang Time Trip 5 458758.000080009000a	RMS9D EMYTD UnAck Current Unbalanced Trip 5 458758.000080009000a DeviceName DeviceName Event 5 458758.000080009000a 1 bbb_1 PLEPM Unknown Event 5 458758.0000080009000a 2 RMS9D EMVTD Long Time Trip 5 458758.0000080009000a	12/06/96 10:29:13	bwb 1	PLEPM	1	Power Revers	al Alarm	5 458758.000080009000	
DeviceName DeviceType Event 5 458758.000080009000a 1 bwb_1 PLEPM Unknown Event 5 458758.000080009000a 7 RMS9D EMVTD Long Time Trip 5 458758.000080009000a	DeviceName DeviceName Event 5 458758.0000080009000a 4 bwb_1 PLEPM Unknown EwvTD Long Time Trip 5 458758.0000080009000a 7 RMS9D EMVTD Long Time Trip 5 458758.0000080009000a	12/07/96 07:26:29	RMS9D	EMVTD	UnAck	Current Unbal	anced Trip	5 458758.0000080009000	ľ
DeviceName DeviceType Event 5 458758.000080009000a 7:30:37 RMS9D EMVTD Long Time Trip 5 458758.000080009000a	DeviceName DeviceName DeviceName Event 5 458758.0000080009000a 7:30:37 RMS9D EMVTD Long Time Trip 5 458758.000080009000a 7:30:37 RMS9D EMVTD Long Time Trip 5 458758.000080009000a	•							
DeviceName Devicetype Event 5 458758.0000800090000 7:30:37 RMS9D EM/TD Long Time Trip 5 458758.0000800090000	DeviceName Lawcetype Cyent 0.29.44 bwb_1 PLEPM Unknown Event 5.458758.0000080009000a 7.30.37 RMS9D EMVTD Long Time Trip 5.458758.0000080009000a UnAcknowledge count = 12								٥
bwb_1 PLEPM Unknown Event 5 458758.0000800090000 5 458758.00000800090000	bwb_1 PLEPM Unknown Event 5 458758.00000800090000 RMS9D EMVTD Long Time Trip 5 458758.00000800090000	limeStamp	DeviceName		Event			- 000000000000000000000000000000000000	
	UnAcknowledge count = 12	02/06/96 10:29:44 02/07/96 07:30:37	bwb_1 RMS9D	PLEPM EMVTD	Unknown Eve Long Time Ti	int rip	5 458 5 4587	7.58.00000800090000 58.0000080009000a	
	UnAcknowledge count = 12								
	UnAcknowledge count = 12								
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	UnAcknowledge count ⇒	-							ľ
	UnAcknowledge count =	6						Н	

FIG. 5

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Waveform Capture — [Voltage, Phase A] File View Waveform Window Help		D 4D
(F)	[¿ż	
4 Mode:	Retrieve	
1: Voltage, Phase A	Magnitude (V Peak)	Phase (Degs)
	11 13	-90.0 -25.5
500	0 0	+15.3
	09 = 0.1 11 = 0.4 13 = 0.4 1	-141.3 -31.7
1001	15 = 0.6 17 = 0.3 19 = 0.5	+48.2 -3.6 -67.1
	18 (5 1	-52.4 +80.3 +5.7
0 120 140 0 80 100 120 140 100 120 140 100 120 140 100 120 140 100 120 140 100 120 140 100 120 140 100 120 140 140 140 140 140 140 140 140 140 14	27 = 0.2 29 = 0.3 31 = 0.3	-86.1 +20.6 -5.7
-1001-	S-X-X	Volts Volts
-200-		
-300 ^J Date: 02/12/1996 Time: 12:51		
For Help, press F1 Default	status line	

FIG. 6

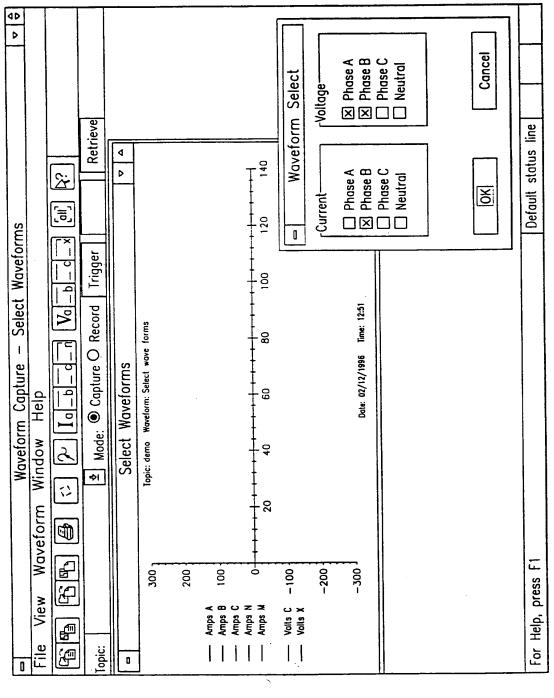


FIG. 7

	Waveform Capture	Δ Δ
File View Waveform	Help	
Topic: E3720	4 Mode: O Capture © Record Trigger	
	= Recorder Depth	
,	O 1x36-One 36-cycle events	
·	O 2x18-1wo 18-cycle events	
	● Jx12-Three 12-cycle events	
	OK Cancel	
For Help, press F1	Default status line	

FIG. 8

TO AKO-8 Manualinimi Manu	The special state of the state	Thirdings and the second of th	-		ich-WindowV	iewer-C:\IN	InTouch-WindowViewer-C:\INTOUCH.32\PMCS_50	CS_50	Development
The minimum of the control of the co	The manufacturing and the state of the state	Thintiminimini Himminimini Thintiminiminimini Thintiminiminiminimini Thintiminiminimini Thintiminiminiminimini Thintiminiminiminimini Thintiminiminiminimini Thintiminiminimini Thintiminiminimini Thintiminiminimini Thintiminiminimini Thintiminiminiminimini Thintiminiminiminimini Thintiminiminiminimini Thintiminiminiminimini Thintiminiminimini Th	Logic Spec						
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FIG. 9

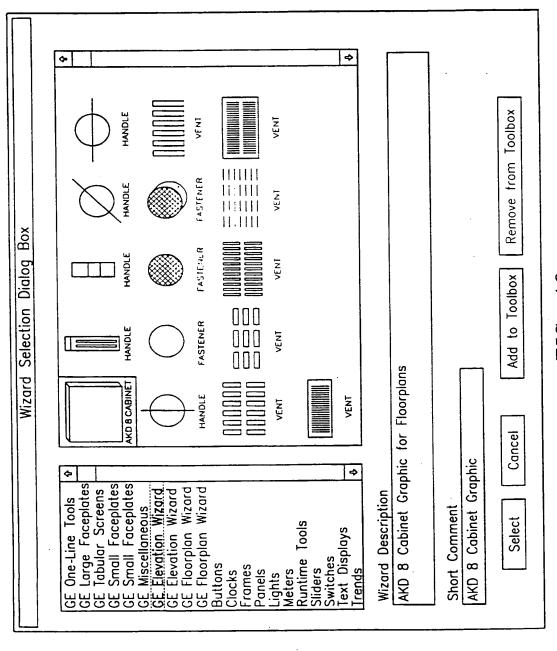


FIG. 10

느		Wizard Selection Dialog Box
	GE One-Line Tools GE Large Faceplates GE Tabular Screens GE Small Faceplates GE Small Faceplates GE Miscellaneous GE Miscellaneous GE Elevation Wizard GE Floorplan Wizard GE Floorplan Wizard GE Floorplan Wizard GE Floorplan Schocks Frames Panels Lights Meters Runtime Tools Siders Switches Tends	SPECTRA AKD 8 PANEL CABINET BREAK POWER BREAK POWER POWER PREAK POWER PO
	Wizard Description Spectra Series Nameplate	Wizard Description Spectra Series Nameplate Graphic for switchgear elevations
	Short Comment Spectra Series Nameplate Graphic	Graphic
	Select	el Add to Toolbox Remove from Toolbox

FIG. 11

GE One-Line Tools GE Large Faceplates GE Tabular Screens GE Tabular Sc
--

FIG. 12

CE One Line Toole &	
Large Faceplates Large Faceplates Small Faceplates Small Faceplates Miscellaneous Elevation Wizard Floorplan Wizard Floorplan Wizard Floorplan Wizard Floorplan Wizard Arons Art Displays	ENUMICED MICRO EPM3720 VERSA TRIP-D WERSA TRIP-D MULTILIN 269 MULTIL
Wizard Description Spectra ECM Small Faceplate Wizard for switchgear elevations	d for switchgear elevations
Short Comment Spectra ECM Small Faceplate	
Select	Add to Toolbox Remove from Toolbox

FIG. 13

0		InTouch-WindowViewer-C:\INTOUCH.32\BRET	Wiewer-C	:\INTOUC	.H.32\	BRET	D	40
File Logic Special	_						Development	님
			EPM37	10 Norm	ial Me	EPM3710 Normal Metering Values		
			۷	8	U	Three Phase Values	Values	
		Volts L-N:	0	0	0	Average Volts L-N:	0	
		Current:	0	0	0	Average Volts L-L:	0	
	<u> </u>	KW:	0	0	0	Average Amps:	0 0	
		kVA:	0	0	0	fotal kW:	o 6	
		kvar:	0	0	0	Total kVAR:	0	
		PE	+	0.00				
L		Frequency:		0.0		Volts AB:	0	
Group Name: ASUr Inout Mode: 4-* Y		Neutral Current:		0 0		Volts BC:	0	
		V AUX:	-	o c		Volts CA:	0	
Current Scale:	0	??? Demand:	+ +	0				
Modbus Address: 0	0 0		To	Total	Import	ort Export		
Meter Kev. 0.0.1	?	kWH:	+		0	0	<u>-</u>	
		kvarh:	0 +	-	0	0	-	
Event Trend Help Logger Wave Exit		Normal Metering	Setup	Setpoints	Its			
]							
	-							l

FIG. 14

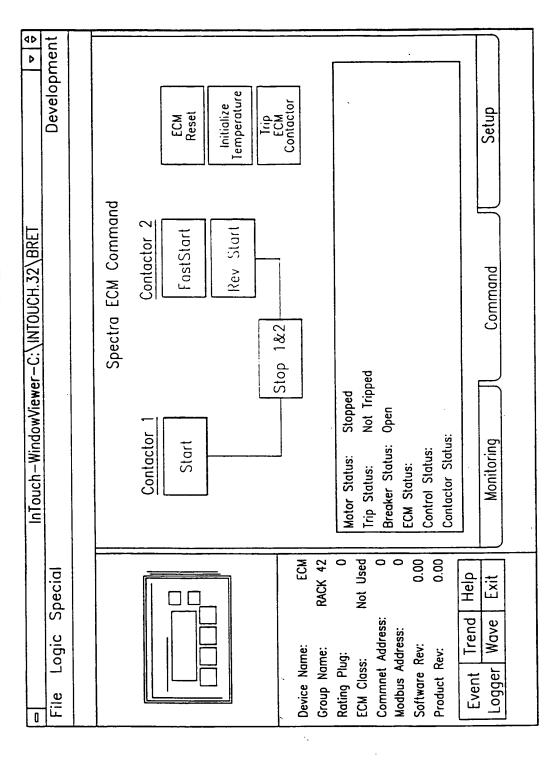


FIG. 15

	InTouch-WindowViewer-C:\INTOUCH.32\BRET	r-C:\INTOUC	1.32\BRET	0
File Logic Special				Development
0		MDP Monit	MDP Monitoring Screen	
		ΚI	O B	ZI
	RMS Current:	0.00	0.00 0.00	00.00
	RMS Trip Current: Phase Trip Current:	0.00 0FF	0.00 0.00 OFF OFF	Ō
	Trip Time:	00.00		
Device Name: MDP Group Name: RACK 19	Status		External Points	oints
CT Ratio: 100	Ready:	ON.	Block Ground:	ON.
Model: 1 AMP	Time Overcurrent:	ON	Block 10C:	0 0 2
et Address:	Inst. Overcurrent:	ON N		
	Pickup:	NO F	Front Panel Settings:	0N
	Relay:	Relay OK		
Rev:	Breaker:	CLOSED		
Product Rev: 0.00				
Event Trend Help	,			
Logger Wave Exit	Monitoring Screen	Command Screen		Setup Screen

FIG. 16

G	InTouch-WindowViewer-C:\INTOUCH.32\BRET	Δ Δ
File Logic Special		Development
	Multilin269 Setup Screen #3	
	Selected Overload Curve: 0 Speed Switch Delay:	0.0 Sec.
	Default Display Line Code: 0 Spare Input Alarm Delay:	ly: 0 Sec.
	Default Display Page Code: 0 Spare Input Trip Delay:	0 Sec.
	Default Running Cool Time: Learned Backspin Timer Setpoint:	ıl: 0 Sec.
	Default Stopped Cool Time: Learned Time Between Starts	0 Sec.
269	D/A Ouput Parameter: Unknown: 0x0 Default K:	0
	Trip Time at 1.05 x FLC: 0 Sec. Trip Time at 3.00 x	FIC: 0 Sec.
	Time at 1.10 × FLC: 0 Sec. Trip Time at 3.50 ×	FLC: 0 Sec.
Device Name: ML269	Time at 1	FLC: 0 Sec.
Group Name: RACK 42	Time at $1.30 \times FLC$: 0 Sec. Trip Time at $4.50 \times$	FLC: 0 Sec.
Device Type: Unknown: 0x0	Trip Time at 1.40 × FLC: 0 Sec. Trip Time at 5.00 ×	FLC: 0 Sec.
Hordwore Rev: N/A	Time at 1.50 × FLC: 0 Sec. Trip Time at 5.50 ×	FLC: 0 Sec.
	Trip Time at 1.75 x FLC: 0 Sec. Trip Time at 6.00 x	FLC: 0 Sec.
	Trip Time at 2.00 × FLC: 0 Sec. Trip Time at 6.50 ×	FLC: 0 Sec.
Firmware Mod: None		FLC: 0 Sec.
		FLC: 0 Sec.
		FLC: 0 Sec.
Event Trend Help Logger Wave Exit	Metering Statistics Alarms Setup 1 Setup 2 Setup 4 Setup	up 4 Setup 5 Setup 6

FIG. 17

	- InTouch	WindowVie	InTouch-WindowViewer-C:\INTOUCH.32\BRET	H.32\BRET	4 b
File Logic Special					Development
			Multilin565 C	Command Screen	
∥	Breaker Date 0/0/0	Date /0	KW Demand 0/0/0	Reset Keypad	Test LCD Display
	Maint. Date	Date	KVAR Demand	End of Reloy Test	Test LED's
Device Name: ML565					
Group Name: RACK 9 Device Type: Unknown Hardware Rev: N/A	Operation Data 0/0/0	Data /0	Events: 0 0/0/0	End of LED Test	
	Amp Demand 0/0/0	0/	Energy: 0	End of Analog Output Test	
Event Trend Help Logger Wave Exit	Metering (Status)	1 — 1	Imand Setup 1	Command Setup 1 Setup 2 Setup 3 Setup 4	up 4

FIG. 18

0,00				Development
נוופ בסלוכ סלובכותו				
		PLEPM Se	PLEPM Setup Values	
	Meter Type:	Unknown: 0x0	Unknown: 0x0 Energy Format:	Unknown: 0x0 ?
	PT Ratio:	0.00000	0.000000 Demand Format:	Unknown: 0x0 ?
IE	CT Ratio:	0.000000	0.000000 Volts Format:	Unknown: 0x0 ?
	Scroll Time:	0	Amps Format:	Unknown: 0x0 ?
Device Name: PLEPM	Leading Zeros:	No		
Idshi	Pulse Output 1:	0.000000 kVAh	per Pulse	
Primary Voltage: 0.00 Primary Current: 0	Pulse Output 2:	0.000000 kVAh	n per Pulse	
Commuet Address: 0 Modbus Address: 0	Demand Period:	0 Min.	Subperiod: 0 Min.	in.
Serial Number: 0.00	Donot.	Meter Initialize	ialize Demand Reset	set
1 Rev:	1,696(3.	Clear Errors	rors Energy Reset	get]
Event Trend Help	Normal Metering	Alternate Metering	Metering)	Setup

FIG. 19

0	InTouch—WindowViewer—C:\INTOUCH.32\BRET	/iewer-C:	\INTOUCH.32\E	3RET	40
File Logic Special					Development
		<u>교</u>	PLM Monitoring Screen	Screen	
0		۷I	8)	Total
	RMS Amps:	00.0	0.00	0.00	
0	Peak Amps: Amp Demand:	00.0	00:0 0 00	0.00	
	RMS Volts L-N:	0.00	00 0	0.00	
	KW: KVAR:	00.0	0.00	0.00	
	KVA:	0.00	00.00	00:00	0.00
Device Name: PLM	kWh:		0.00 RMS V	RMS Volts A-B:	00:00
Group Name: RACK 22	Peak kW Demand:		0.00 RMS V	olts C-A:	0.00
	KVARh: pf-		0000		
Comminet Address:	Frequency(Hz):		0.0		
Modbus Address: 0	Harmonic Distortion(%):	(%):	0.		
Installed Options	Maveform Status				
	Waveform	Captured:	Waveform Captured: Unavailable 1	Phase:	
Event Trend Help Logger Wave Exit	Monitoring		Command		Setup

FIG. 20

	INTORCH—WILLDOWNEWEI — C. VIIVI OCCITION (DIVE	Wer - C: VIIVIOO	01:04 \D\\-1	
File Logic Special				Development
	Spectra	MicroVersa	Spectra MicroVersa Trip Monitoring Screen	creen
		_) (1)	Total
	Amps: Volts L-N:	0.00		0.00
	.kW:	0.00		0.00 0.00
	kVAR: KVA:	0.00	0 00 0	00.0 00.0
Group Name: VAERFG Connection: Delta Frame Size: G Frame Current Sensor: G Frame Current Sensor: G PT Rating: 0 PT Rating: 0 Commnet Address: 0 Modbus Address: 0.00 Product Rev: 0.00 Product Rev: 0.00 Product Rev: 0.00 Product Rev: 0.00	kWh: kW Demand: Peak kW Demand: PF: Frequency: Breaker Status: Normal Monitoring	0.00 0.00 0.0 Open	0 volts A-B: 0 volts B-C: 0 volts A-C: 0.00 0.0	0.00

FIG. 21

0	InTouch-WindowViewer-C:\INTOUCH.32\BRET	D D
File Logic Special		Development
	MicroVersa Trip PM Monitoring Screen	Ui
	A B	Total
	Amps: 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	
	0.00	
	0.00 0.00	
gosha	kVA: 0.00 0.00 0.00	0.00
Group Name: Group Name: Connection: Frame Size: Rating Plug: Commnet Address: Commnet Address: Software Rev: Software Rev: Common Trend Help Logger Wave Exit	kWh: kW Demand: Peak kW Demand: PF: 0.00 Volts B-C: 0.00 Volts C-A: 0.00 Frequency: Breaker Status: Normal Monitoring Setup Screen	0.00

FIG. 22

0	InTouch-WindowViewer-C:\INTOUCH.32\BRET	ΔD D
File Logic Special	Development	ment
	Enhanced MicroVersa Trip—C Setup Screen	
	Long Time Protection Configuration Other Protection Configuration	
	0.00 Current Sensor Rating:	-
	Delay: Disabled	0
	irrent: Disable	
	Protection Configuration Neutral Protection Factor:	P.
	Short Time: Disabled Demand Interval: 0 Min.	- C
	Pickup: 0 00 Ground Fault Protection Configuration	
	Config: Long	p
	Delay: OFF, N/A Curve. Normal	
Device Name: RMS9C	Instantaneous Protection Configuration Switchable GF:	Ŷ.
Group Name: DFDS	Instantaneous Overcurrent: Disabled Pickup: 0.0	0.
Delt	0.0	∢
Frame Size: 0	Protective Relays	
	Disabled Setpoint: 0% Delay: 0	
	Disabled Setpoint: 0% Delay:	
Commnet Address: 0	ance: Disabled Setpoint: 0% Delay:	
Modbus Address: 0	Disabled Setpoint: 0% Delay: 0	
Software Rev: 0.00	Power Reversal: Disabled Setpoint: 0 kW Delay: 0 Sec.	
Product Rev: Unknown	Resets: Energy Demand Inst. Trip Short Trip Long Trip Grnd Fault	
Event Trend Help	Normal Monitoring Setup Screen	
-		

FIG. 23

		InTouch-WindowViewer-C:\INTOUCH.32\BRET	ewer-C:\INTOL	ICH.32\BRET	D
File Logic Sp	Special				Development
		Enhance	Enhanced MicroVersa Trip—D	Monitoring	Screen
			A) (B	ZI
	J-0	Amps:	00.0	0.00 00.0	0.00
	[]	Volts L-N:	0.00		Total
<u></u>		 •	0.00	0.00 00.00	0.00
		kvar:	0.00	0.00 00.00	0.00
		KVA:	0.00	0.00 0.00	0.00
		kW Demand:	00.0	Volts A-B:	0.00
Device Name:	RMS9D	Peak kW Demand:	00.00	Volts B-C:	00.0
Group Name:	2	KWh:		Volts A-U:	00.0
Connection:	Delta	<u></u>	0.00		
Frame Size:	0	Frequency:	0.0		
Rating Plug:	0	Breaker Status:	$\overline{}$	Trip Operations Count	er: Disabled
PT Rating:	0	Wires:	5 wire	Sw. Inst/Short Time:	
Commnet Address:	0			Current Unbalance Re	
Modbus Address:	0			Gnd Fault ZS1 Selected:	
Software Rev:	0.00			Short Time ZS1 Selected:	ted: Disabled
Product Rev:	Unknown				
Event Trend	Help	Normal Monitoring	Setup Screen	reen	
Logger Wave	Exit				

FIG. 24

FIG. 25

0	InTouch-WindowViewer-C:\INTOUCH.32\BRET	H.32\BRET
File Logic Special		Development
	EPM3720 S	EPM3720 Setup Screen #1
	Slove ID 0	
	Volt Input Mode: 4-w Y ♣ ♦	Current Scale:
	cy: 60 hz	
	Baud Rate: Unknown	Vaux Scale:
	Register Size: 16 bits 🖭	Voux Zero Scale:
Device Name: E3720	Active Protocal: None	
2		- F
Voltage Scale: 0	Numeric Format: 1,234.5 ₾	e: 0-20 mA)
	Phase Labels:	lout Key: Volts Phase A
Modbus Address: 0	RTS Line Mode: Active Low	Transmit Delay:
Meter Rev: 0.0.0.0	Extended Diagnostics: No ♣ Return Invalid Objects: No ◆	#
Clost Land	Download Refresh	Reset Reset Energy Integrators All Min/Max
Event Irena Ireip Logger Wave Exit	Metering Thermal Omnd Sliding Omnd	Setup 1 Setup 2 Setpoints

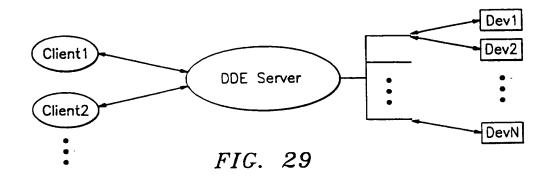
FIG. 26

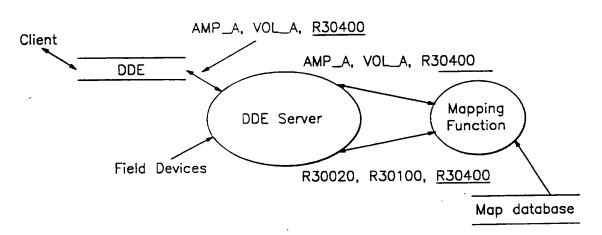
Φ Φ	Development	10000000000000000000000000000000000000	
InTouch-WindowViewer-C:\INTOUCH.32\BRET		Status 1 Status 2 Status 3 Status 3 Status 1 Status 2 Status 3 Status 2 Status 3 Status 2 Status 3 Status 1 Status 2 O O O O O O O O O	
-InTouch-		Relays E3720 RACK 45 Sliding Windows O Sliding Demand O Sliding Demand Prediction Base: Thermal Demand Help Help Metering Therman	
0	File Logic Special	Device Name: Group Name: Ray Voltage Scale: Current Scale: Modbus Address: Meter Rev: Current Frend H Event Trend H Logger Wave E	

FIG. 27

InTouch-WindowViewer-C:\INTOUCH.32\BRET	Development	EPM3720 Setpoints	Setpoint #: Standard #1 & & Setpoint Type: Under Positive & Trigger Key: [1][[][]][]	Limits (0) Low: (0) Time Delay (0) To Operate: (0) To Release: (0) Action #1 Waveform Recorder 20 Action #2 Snapshot Log #7 20	Download Refresh Metering Thermal Dmnd Sliding Dmnd Setup 1 Setup 2 Setpoints
0	File Logic Special			Device Name: E3720 Group Name: RACK 45 Voltage Scale: 0 Current Scale: 0 Modbus Address: 0 Meter Rev: 0.0.0.0	Event Trend Help Logger Wave Exit

FIG. 28





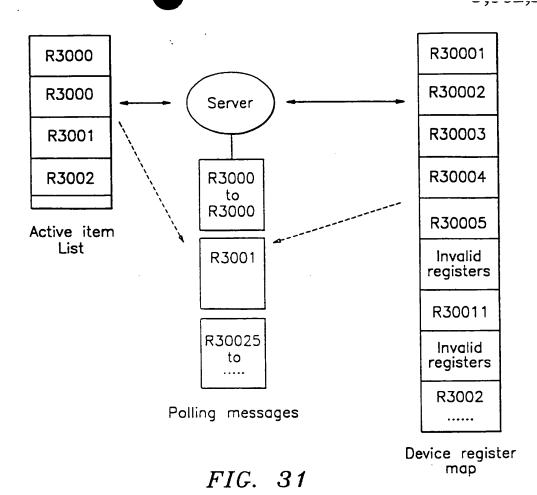
Register Mapping Scheme

AMP_A => Current of phase A for a meter identified by DDE topic, Register address R30020

VOL_A => Voltage of phase A for a meter identified by DDE topic, Register address R30100

R30400=> An item addressed directly with register address. No conversion required.

FIG. 30



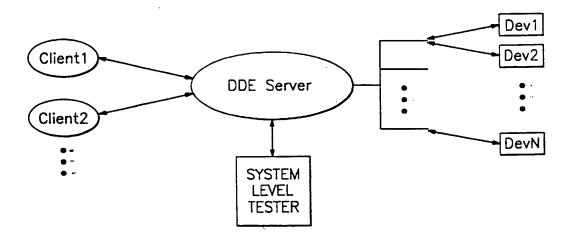
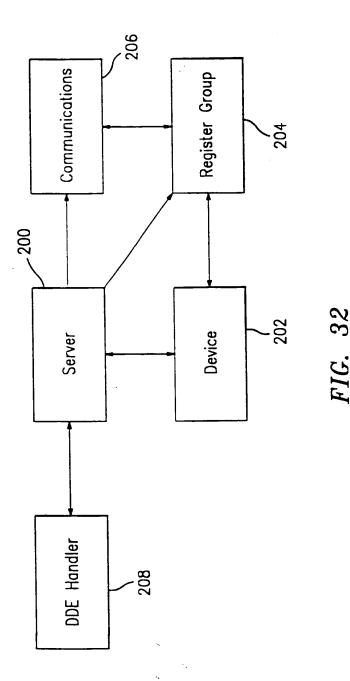
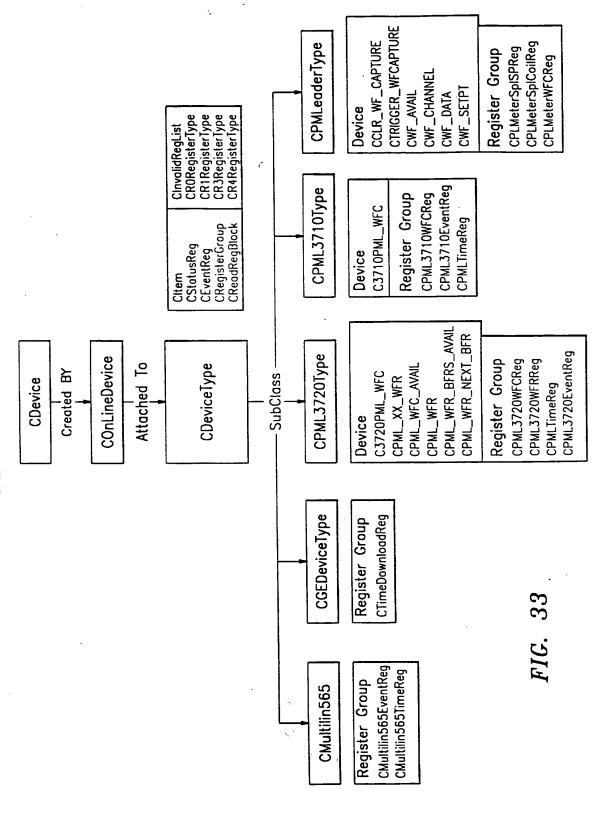
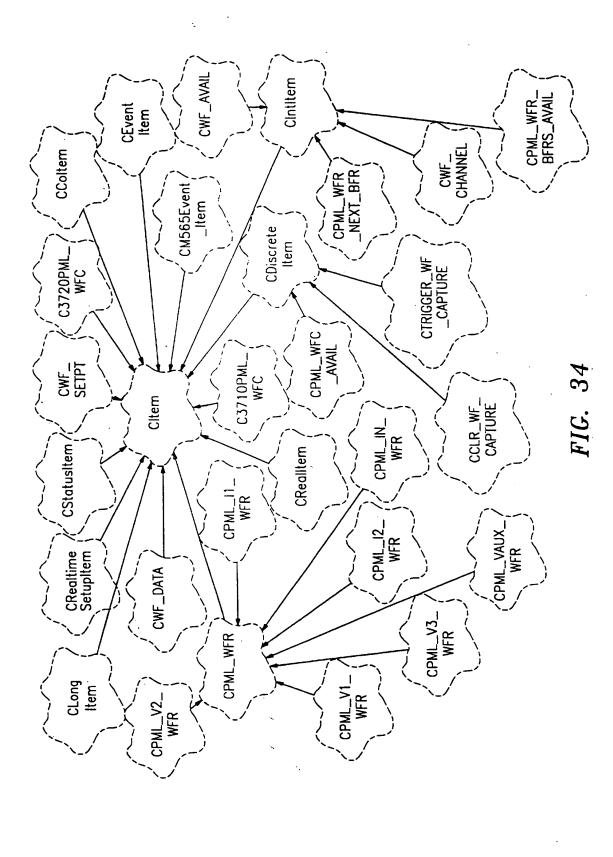


FIG. 31A





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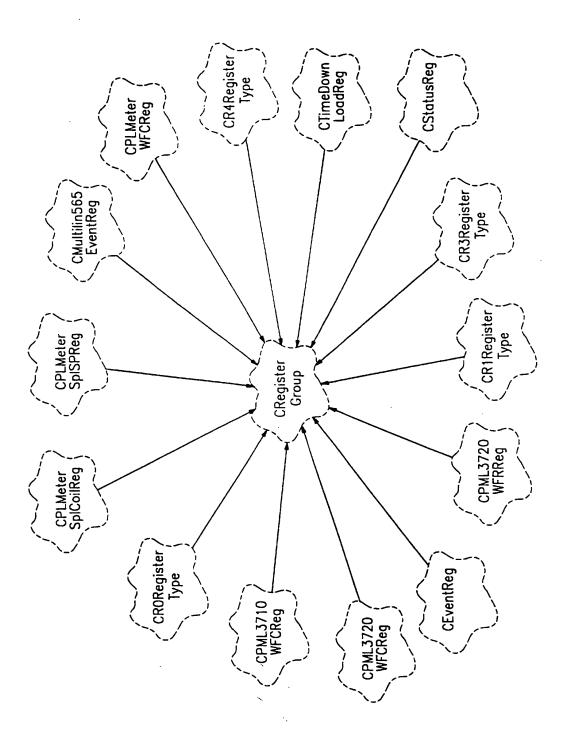


FIG. 35

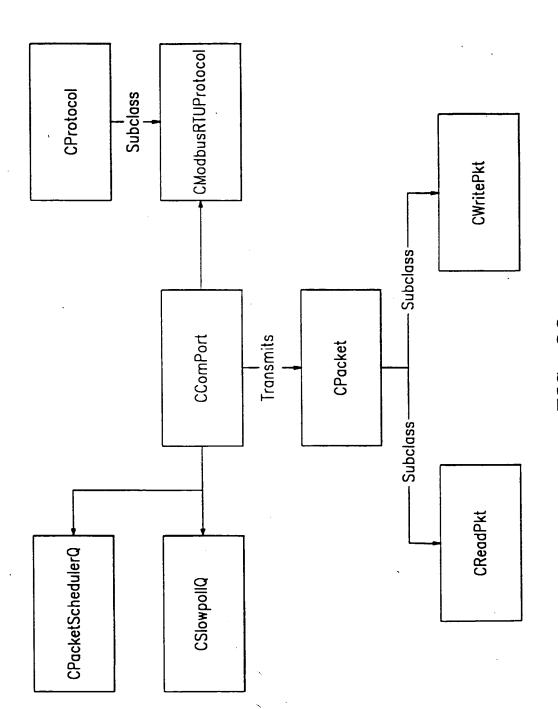


FIG. 36

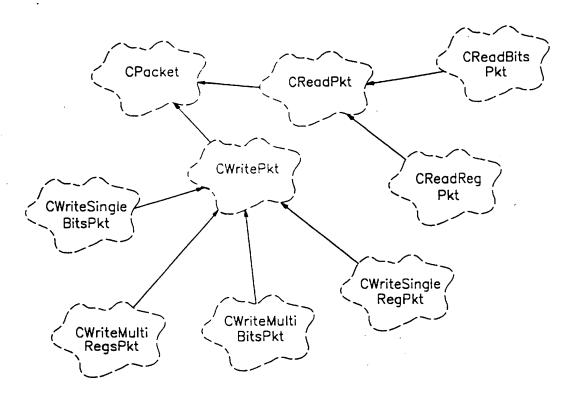


FIG. 37

	Server	Windows	Application-Server	▽	Δ
View	Configure	Help			
	•				
	View		Server Windows View Configure Help	Server Windows Application—Server View Configure Help	

FIG. 38

	Server Windows Application—Server			4	
Server	View	ew Configure Help			
		Device Type Info		•	-
	•	Device Info			İ
		Ports			
		Operation Params			

FIG. 39

	evice Configura	tion
Application Name: GE485	5W31	
Configured Devices	Add	Device Name(Topic) : EPM1
EPM1 PML_3720_01 PML_3720_01		Com Port : COM2
PLC_9030_01 PLC_9070_01	Modify	Device Type : EPM
M269_01 M269_02	Delete	Slave Add : 104
ECM_01		Scan Interval : 1000 (msecs)
Close		Help

FIG. 40

=	Add Device Configuration
Device(Topic) Name:	
Com Port:	▼ OK
Device Type:	Cancel
Slave Add:	Garleer
Scan Interval: (msecs)	

FIG. 41

-	Modify Device Configuration
Device(Topic) Name:	ЕРМ1
Com Port:	COM1 ◆ OK
Device Type:	PL Meter
Slave Add:	100 Cancer
Scan Interval: (msecs)	200

FIG. 42

	Server Windows Application—Server		
Server View Configure Help			
	Device Type Info Device Info		
	Ports		
	Operation Params		

FIG. 43

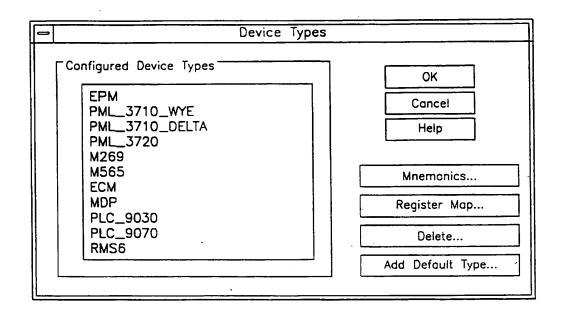


FIG. 44

	Mnemonics-PML371	0
Mnemonic YEAR MONTH DAY HOUR MINUTE SECOND VOLTS_A	Register Addr - R40001 - R40002 - R40003 - R40004 - R40005 - R40006 - R40010	
ОК	Cancel	Help

FIG. 45

Register	Map-PML3710
Register Groups: Real Time Parameters Status Registers Minimum Real Time Values Minimum Time Stamps Maximum Real Time Values Maximum Time Stamps Setpoints Setup Registers	Modbus Function Codes: 02, 04, 03, 16 Derived From: R0 Type Add New Register Group Delete Modify
OK Ca	ncel Help

FIG. 46

0	Modbus	Function	Codes-PML3710	
	Function Codes:		ОК]
	02, 04, 03,	16	Cancel	$\rfloor \mid$

FIG. 47

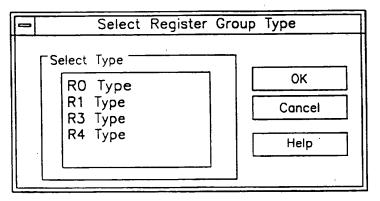


FIG. 48

F	Register Group—Status Registers
Start Address: 200 End Address: 243 Poll Speed Fast Poll O Slow Poll O Poll Once	From To 203 - 208 227 - 239 Add Modify Delete
ОК	Cancel Help

FIG. 49

	Add	Invalid	Register
Start Add 100 End Add: 200			OK Cancel

FIG. 50

Modify In valid	Register
Start Add: [203] End Add: [208]	OK Cancel

FIG. 51

	Server Windows Application−Server ♥					
Server	View	Configure Help				
		Device Type Info Device Info				
		Ports				
		Operation Params				

FIG. 52

F	Communication Port Configuration	
	COM Port: COM1 Parameters Parity Stop Bits Flow Control Hardware Odd Odd None	ОК
	O None Baud Rate ○ 300 ○ 600 ○ 1200 ○ 2400 ○ 4800 ○ 9600 ○ 14400 ○ 19200 ○ 38400 ○ 57600	Cancel Help

FIG. 53

-	Server Windows Application-Server	
Server View	Configure Help	
	Device Type Info Device Info	
	Ports	
	Operation Params	

FIG. 54

Server Operational Parameters	
Note: Changing these paramters can adversely affect the server's performance. Be careful. Protocol Timer Tick: 100 (msec) Server Timer Tick: 100 (msec)	OK Cancel Help

FIG. 55

	Server Windows Application—Server	\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	Δ
Server Vie	ew Configure Help		
Run			
Suspend F	Protocol		
Exit			
		٠	

FIG. 56

- (Server Windows Application—Server	
Server View (Configure Help	
Run		
Suspend Protoc	ol	
Exit		

FIG. 57

Server Windows Application—Server	
Server View Configure Help	
Run	
Resume Protocol	
Exit	

FIG. 58

	Server Windows Application—Server	▽	
Server	View Configure Help		
	I/O Traffic Display	-	
	Clear Display		
`			

FIG. 59

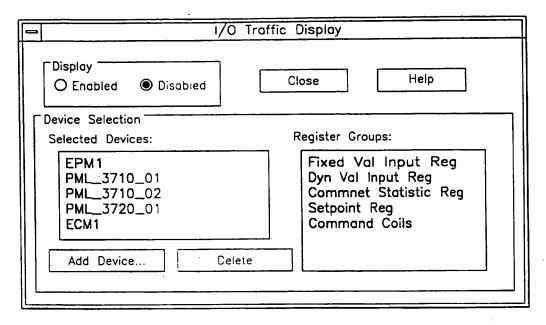


FIG. 60

I/O Traffic Display−Se	elect Device
Device List RMS9A_01 MDP_01 PLC_9030_01 PLC_9070_01 M269_01	OK Cancel Help

FIG. 61

	Server Windows Application—Server						
Server	View	Configure	Help				
			Contents Search				
			About Server				
		,					

FIG. 62

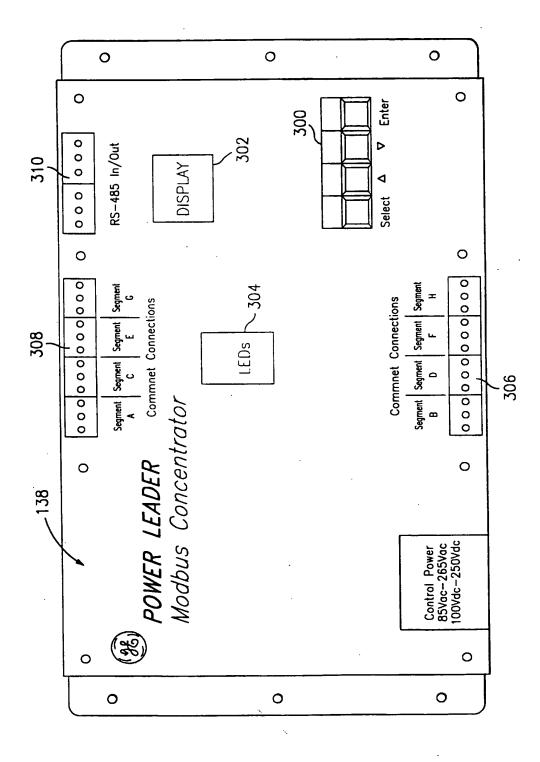


FIG. 63

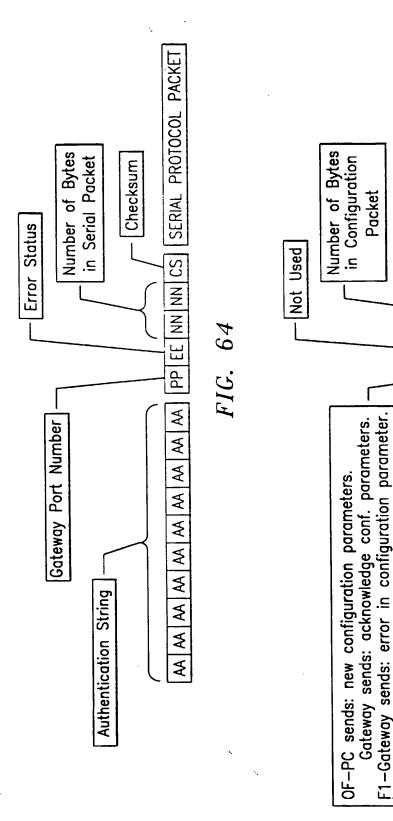


FIG. 65

CONFIGURATION PACKET

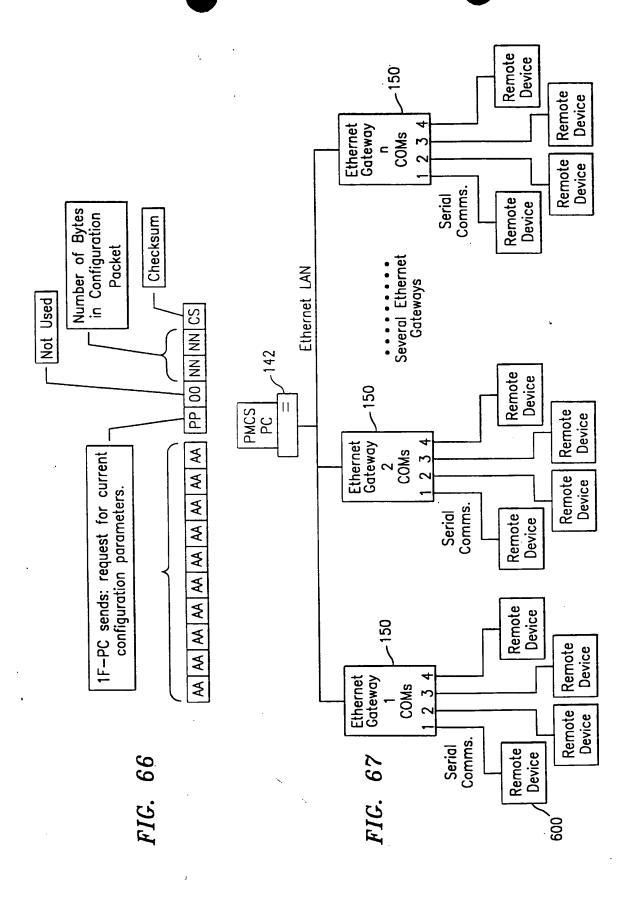
PP 00 NN NN CS

≸

₹

AA|AA|AA|AA|AA|AA|AA|AA|

Checksum



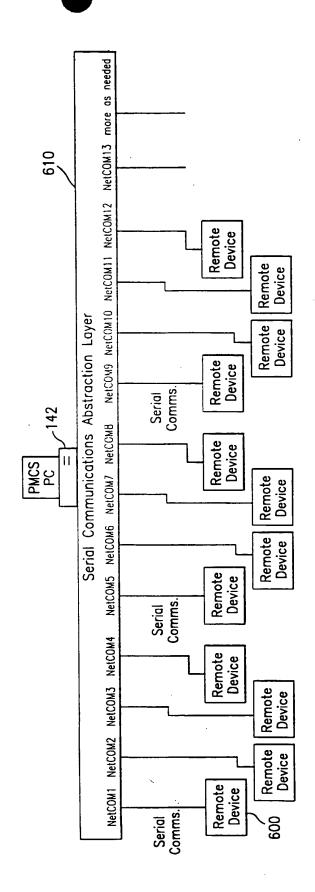


FIG. 68

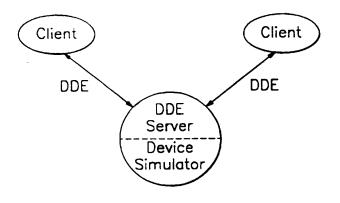


FIG. 69

-		Configure	e Load P	rofile		
						\succeq
-	Average Current Peak Current Random Noise Average Voltage Peak Voltage Random Noise	110	B 200 210 1 1 110 115 1	C 200 210 1 110 115 1	N 1.1 1.1 volts volts volts	amps amps amps
	Average P.F Peak P.F Random Noise Profile Length	1	30 40 1 nin Hour	30 40 1 Cnt Incr		
		ок	Cancel			

FIG. 69A

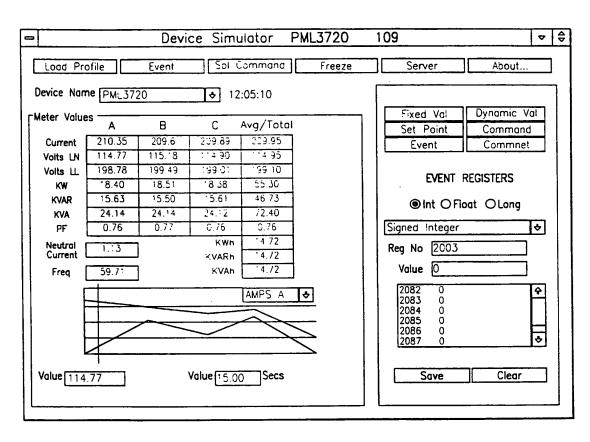
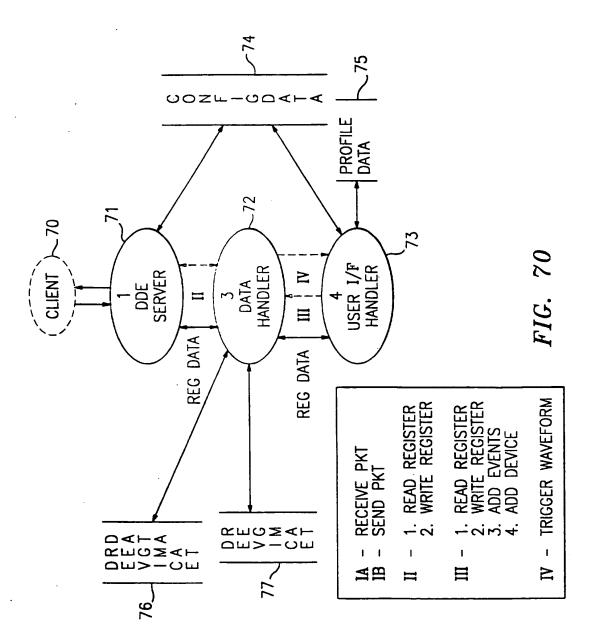


FIG. 69B



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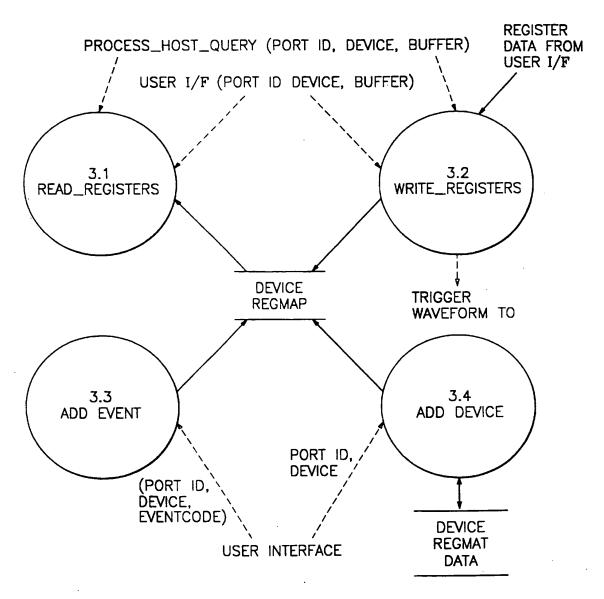
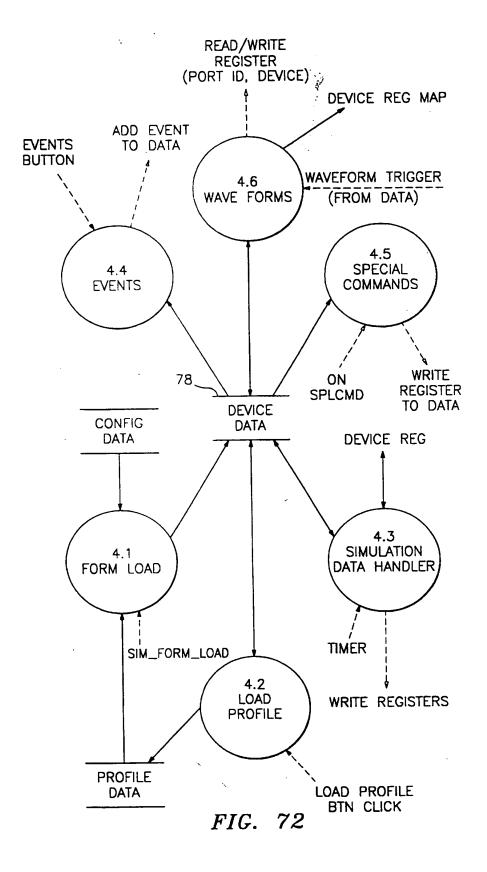
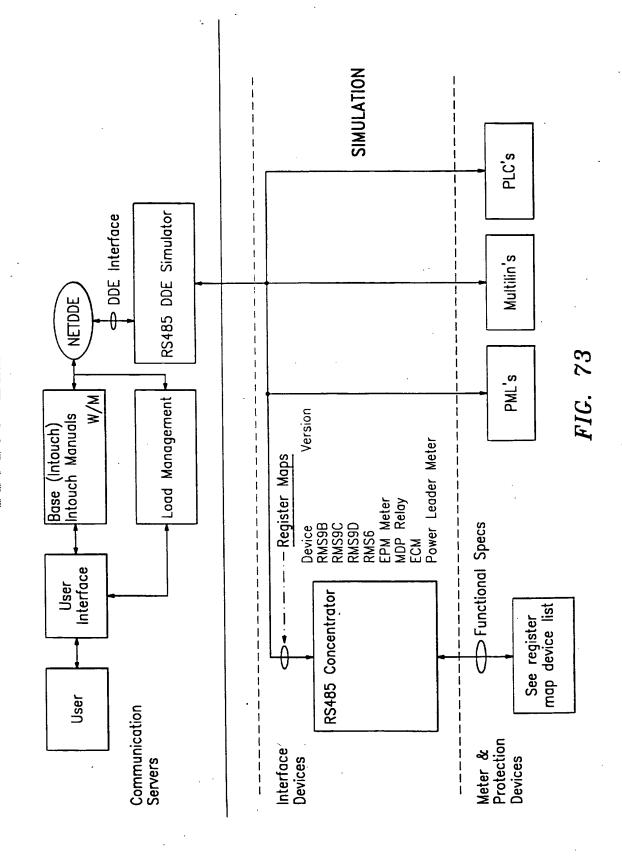


FIG. 71





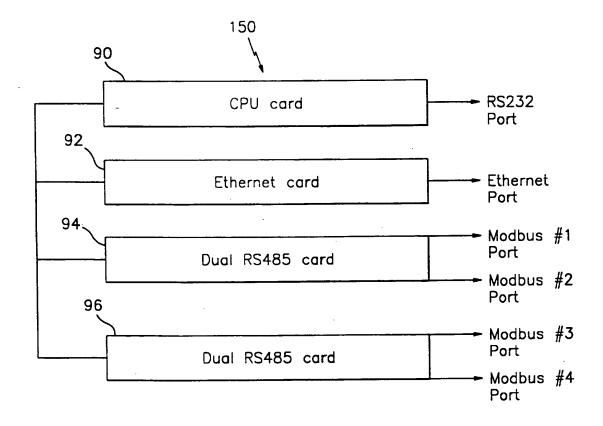
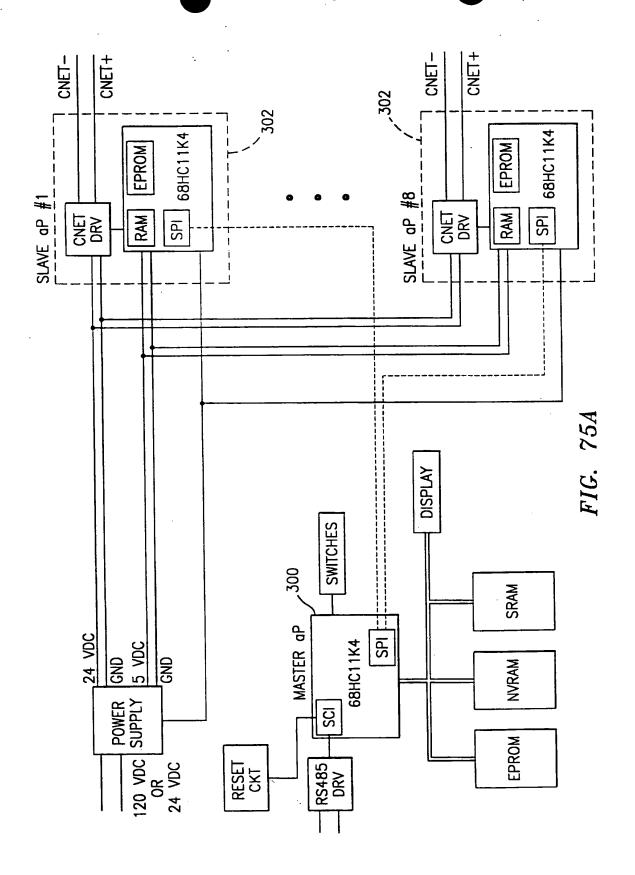


FIG. 74



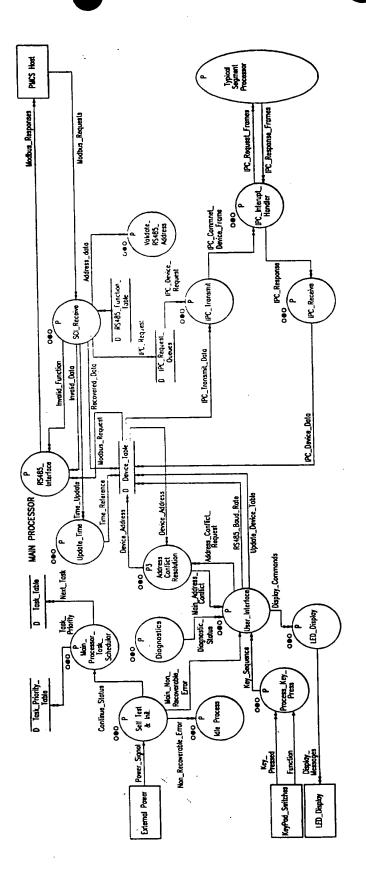
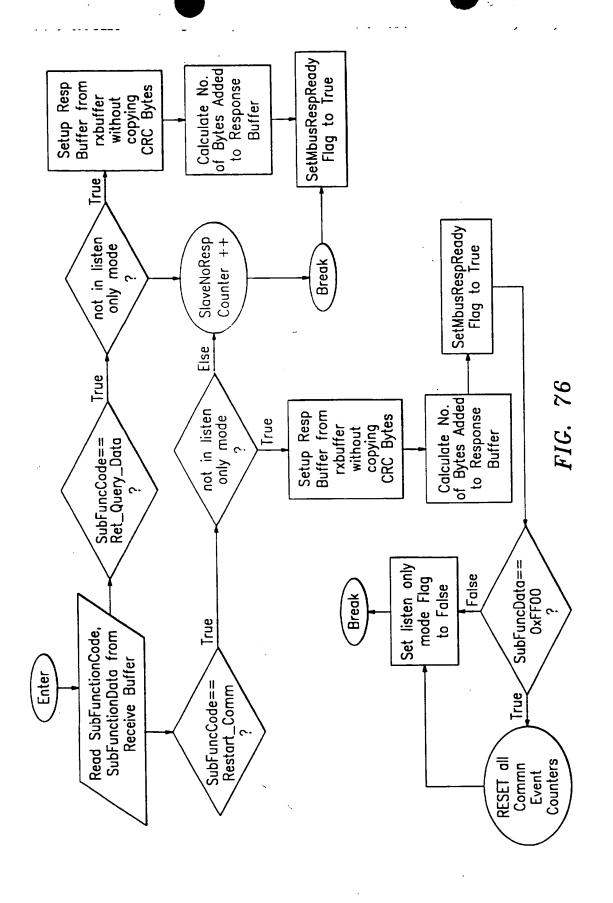


FIG. 75B



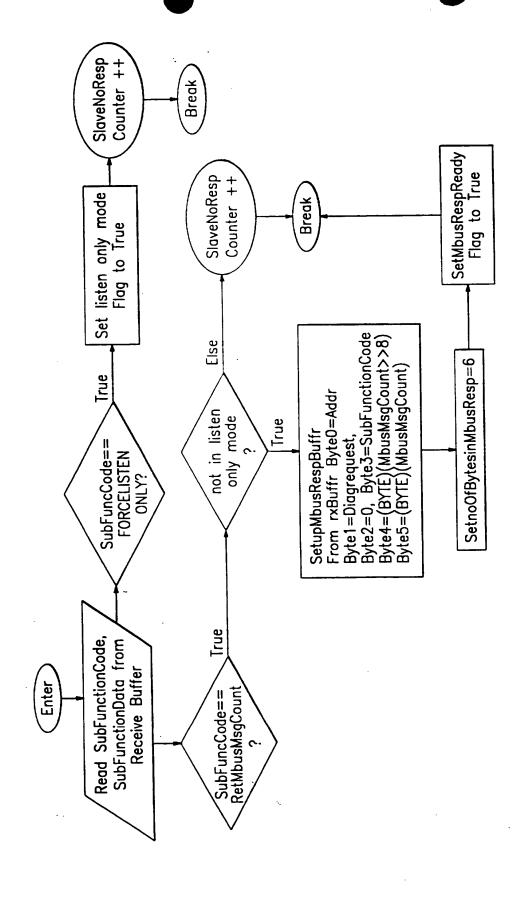


FIG. 77

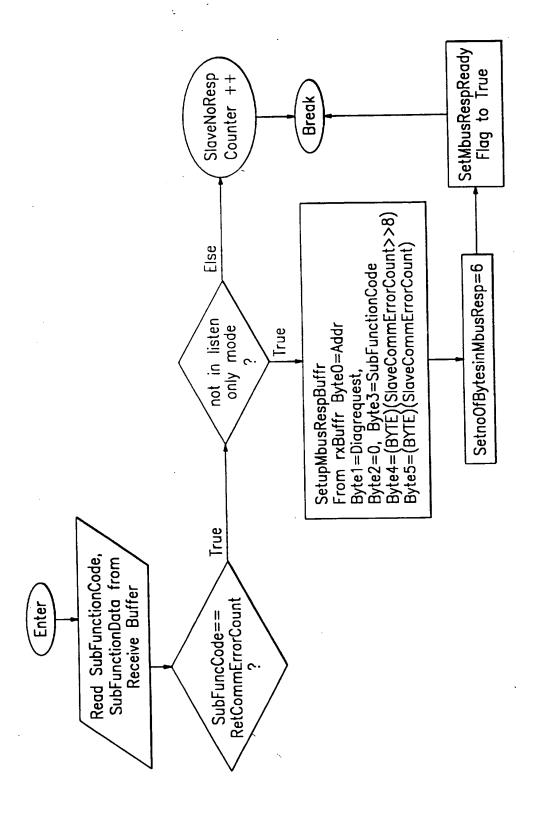


FIG. 78

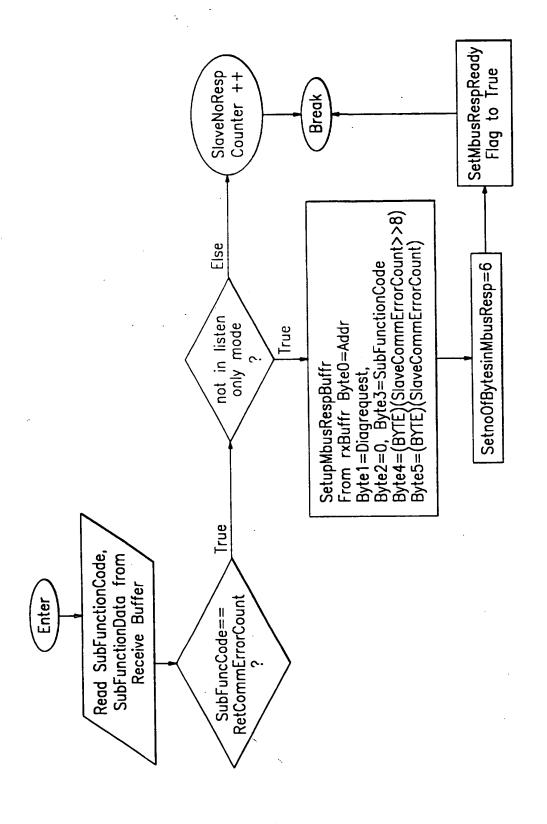


FIG. 79

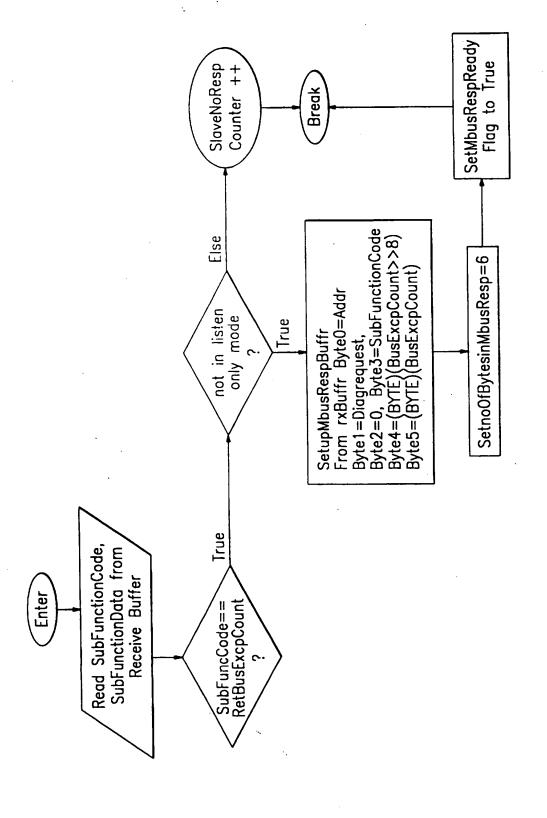


FIG. 80

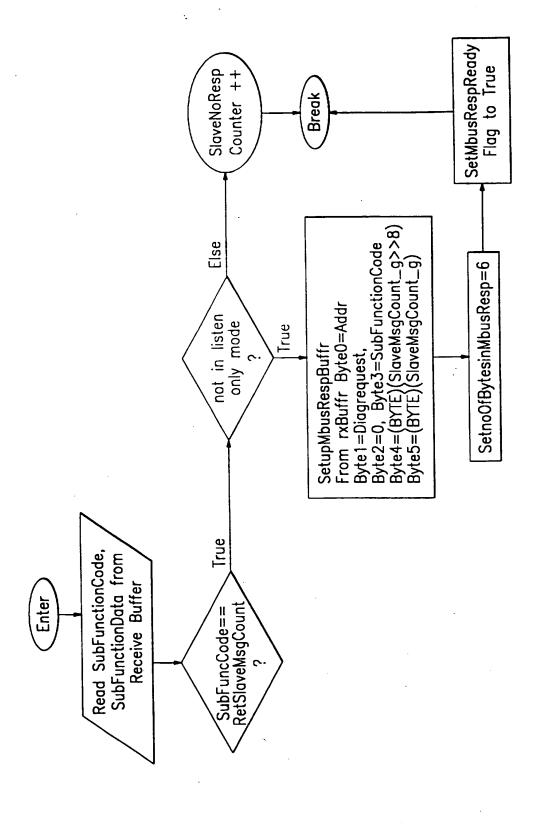


FIG. 81

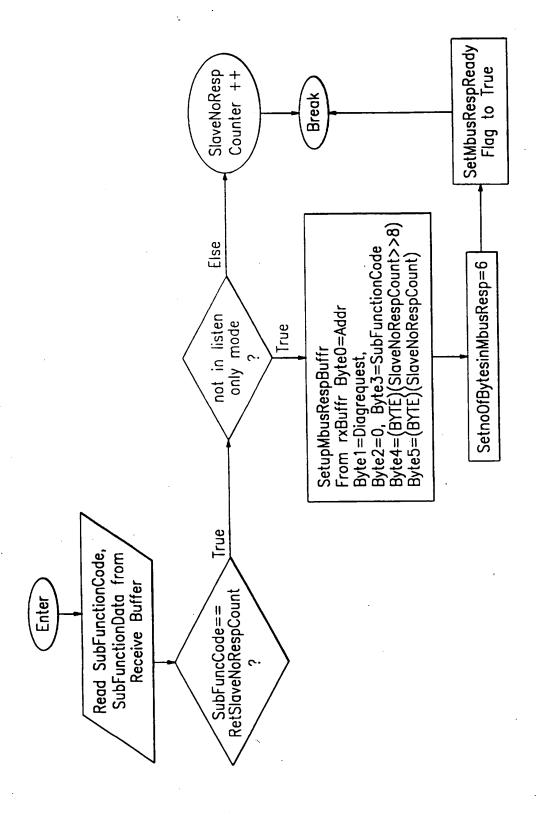
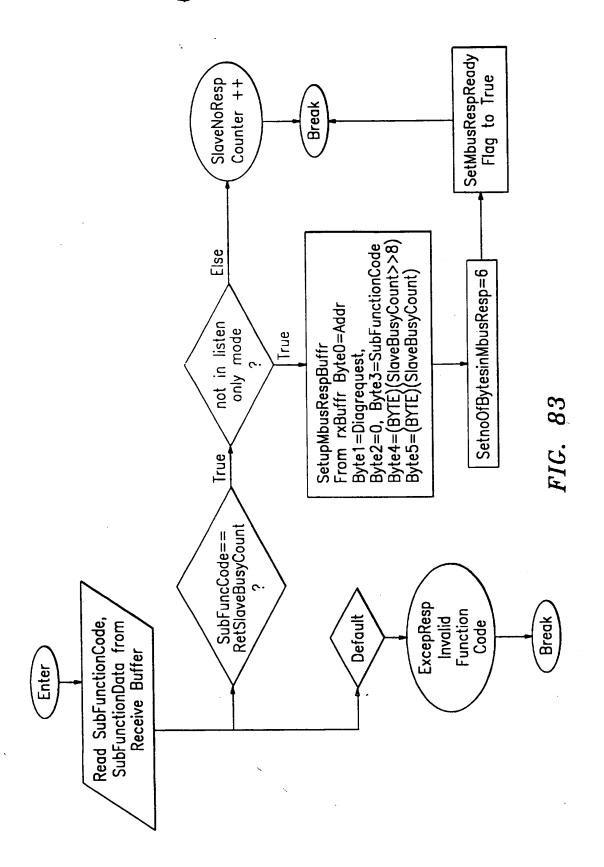
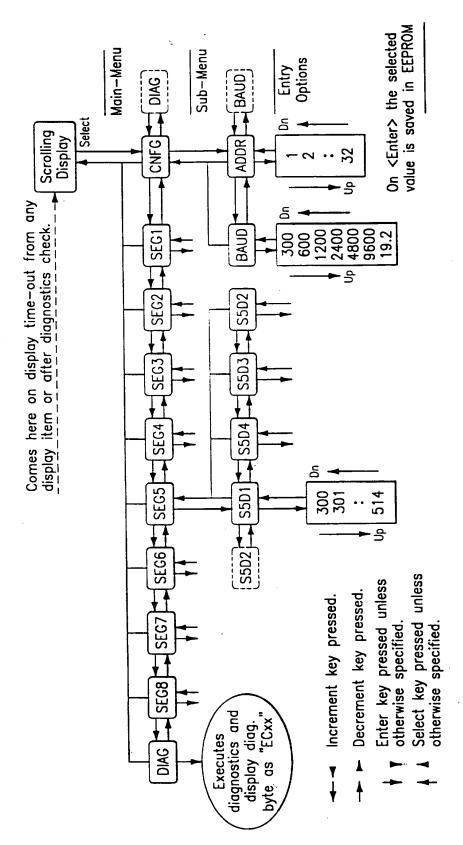


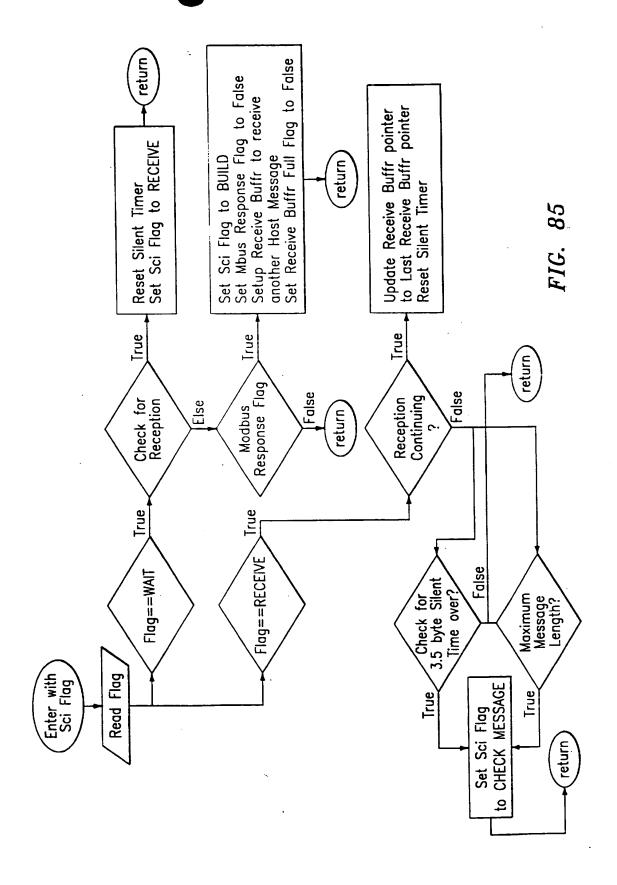
FIG. 82



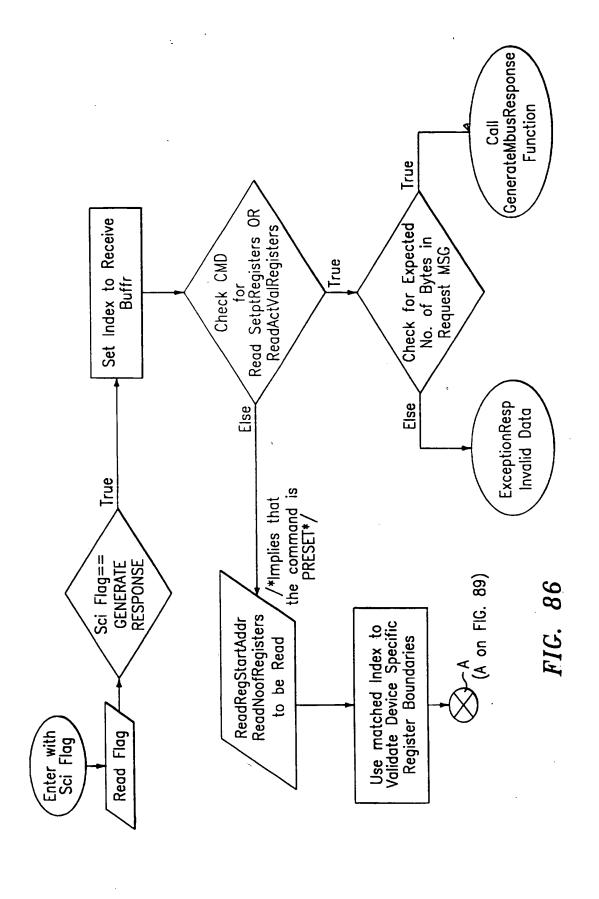


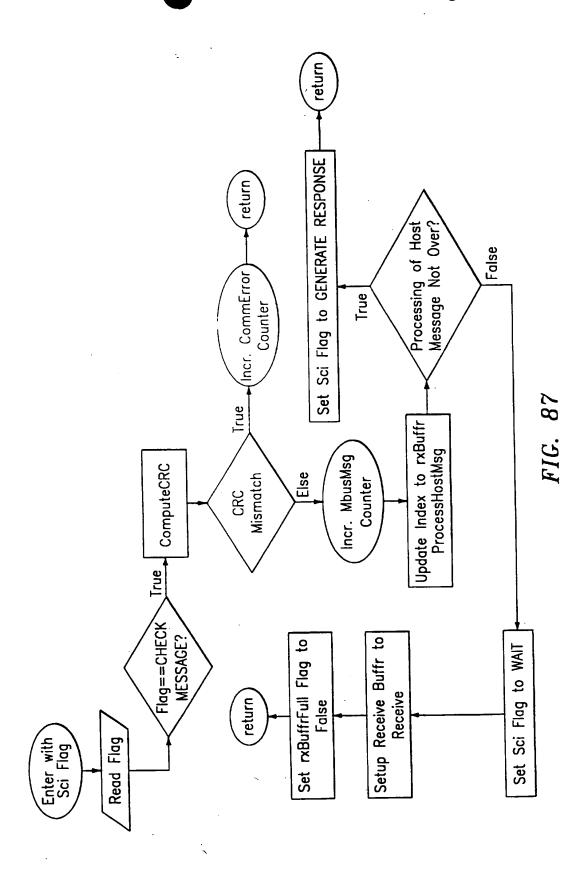
Display item S5D1 means device one of segment five. For other segment submenu shall be made accordingly.

FIG. 84



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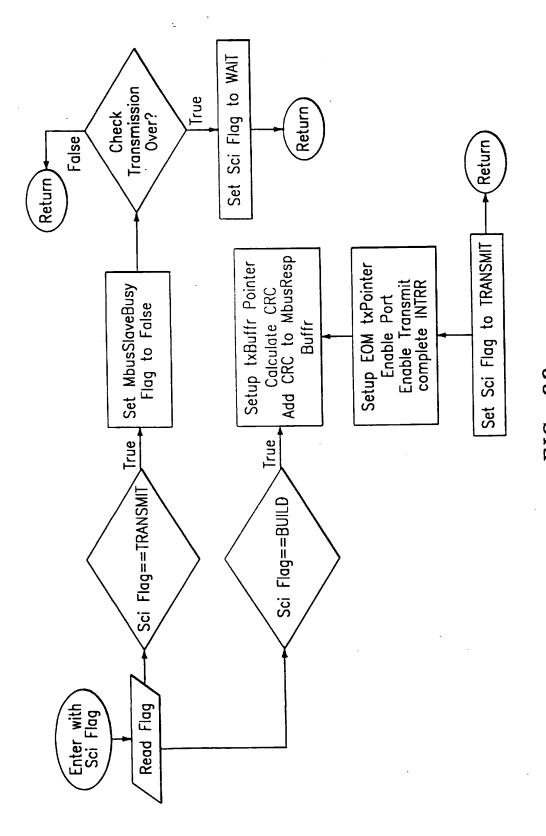
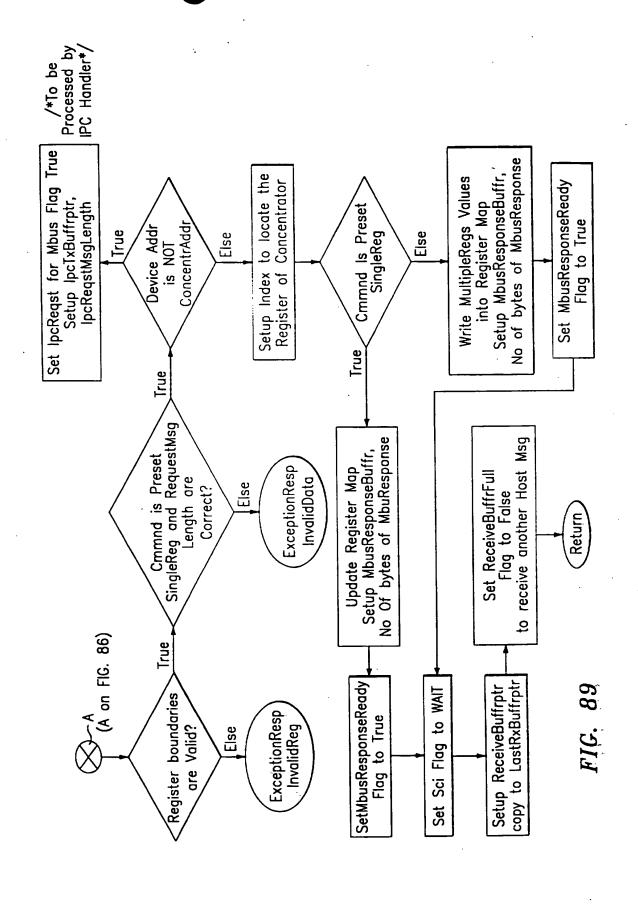


FIG. 88



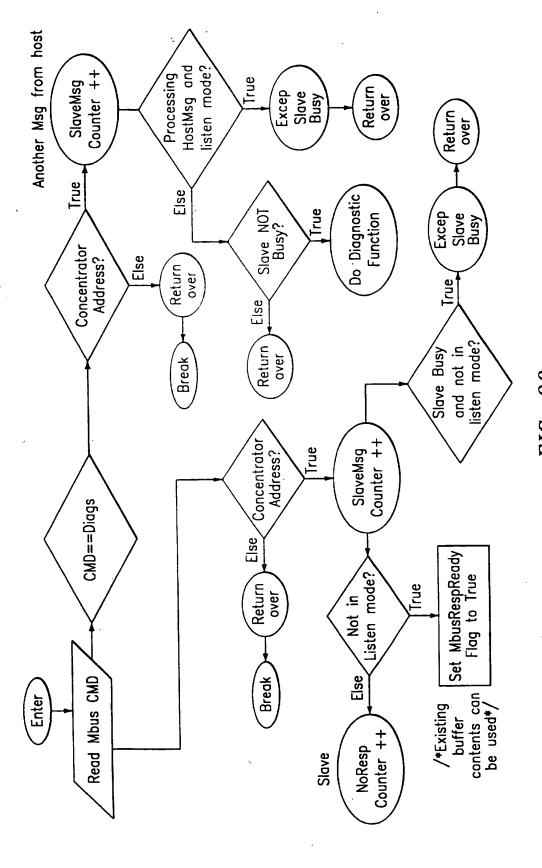
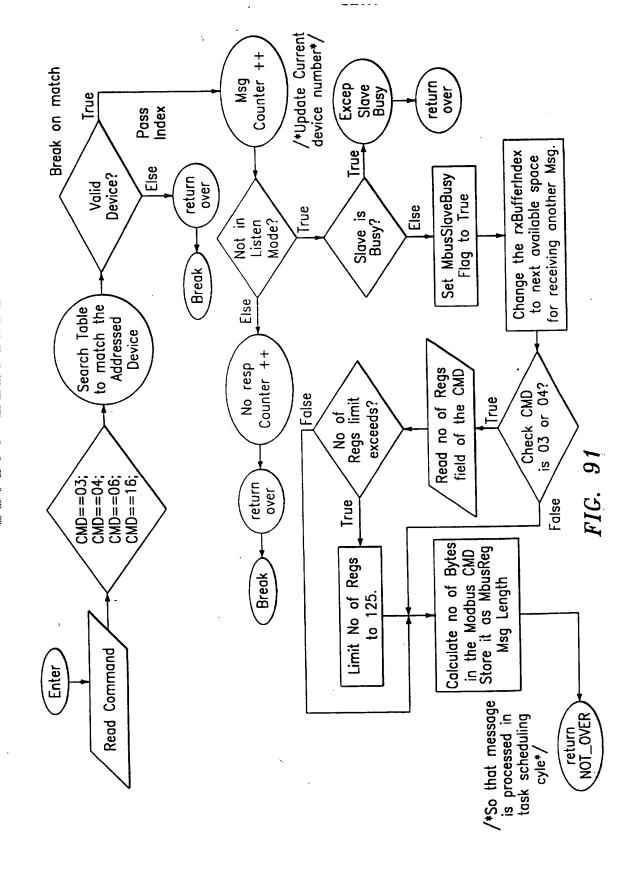
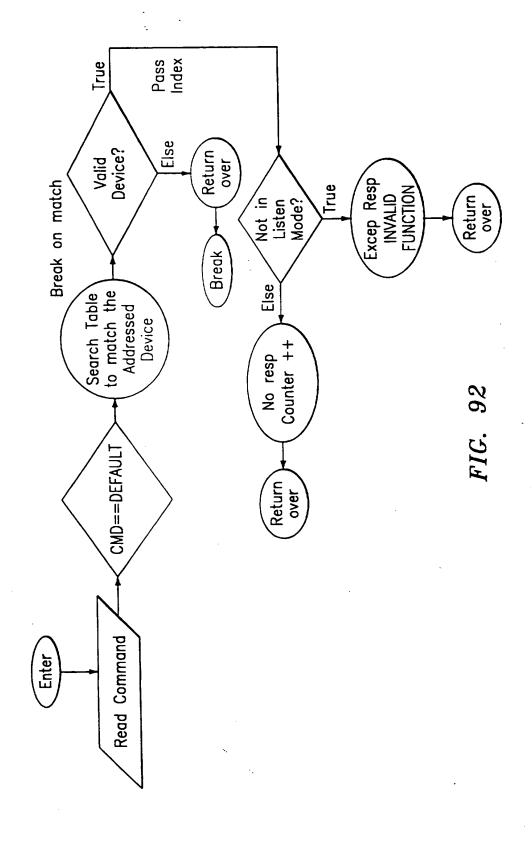
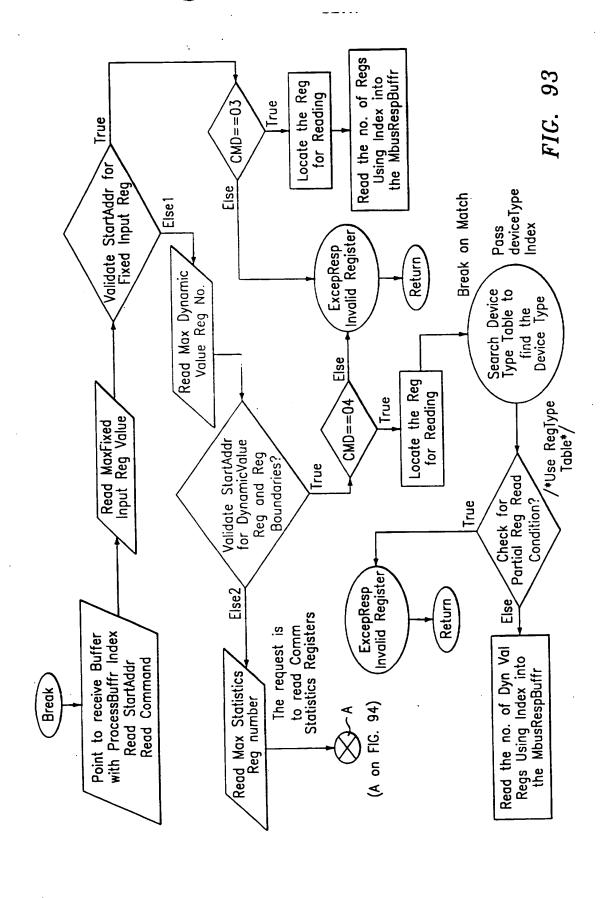
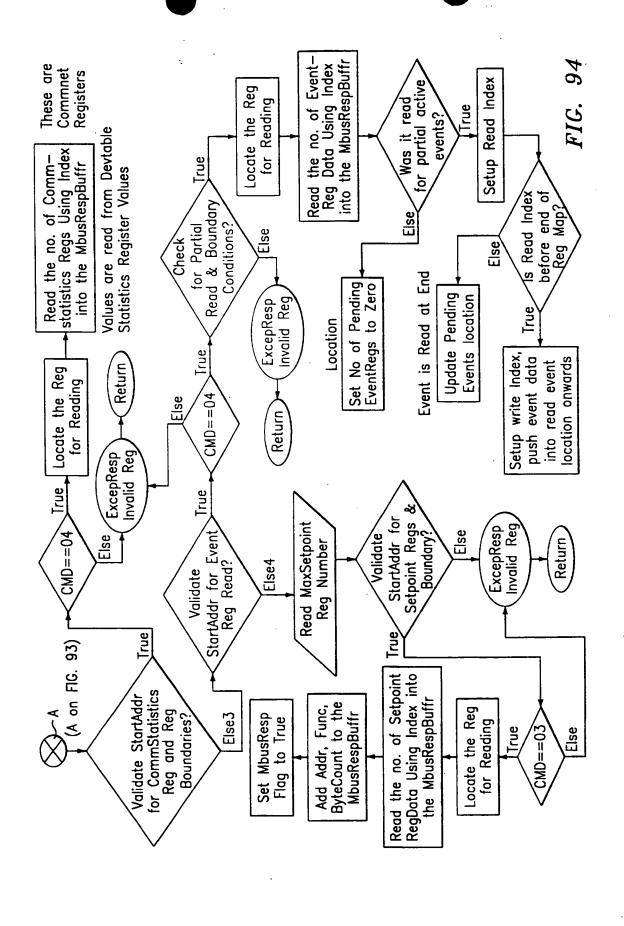


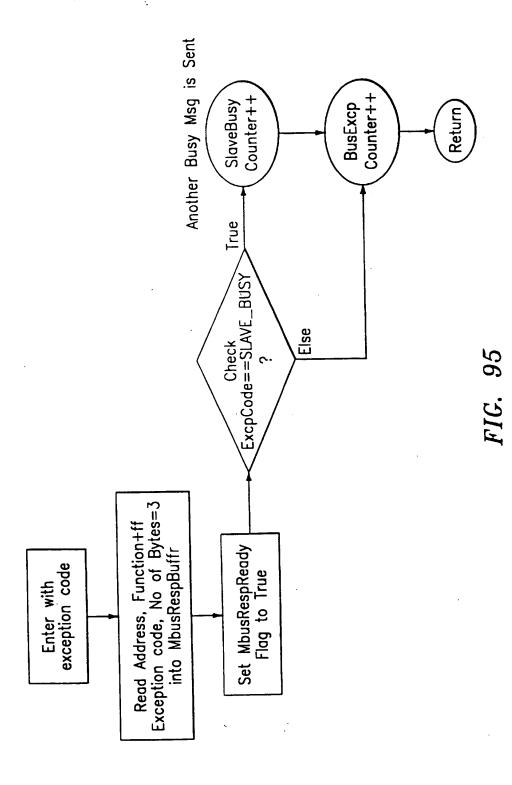
FIG. 90











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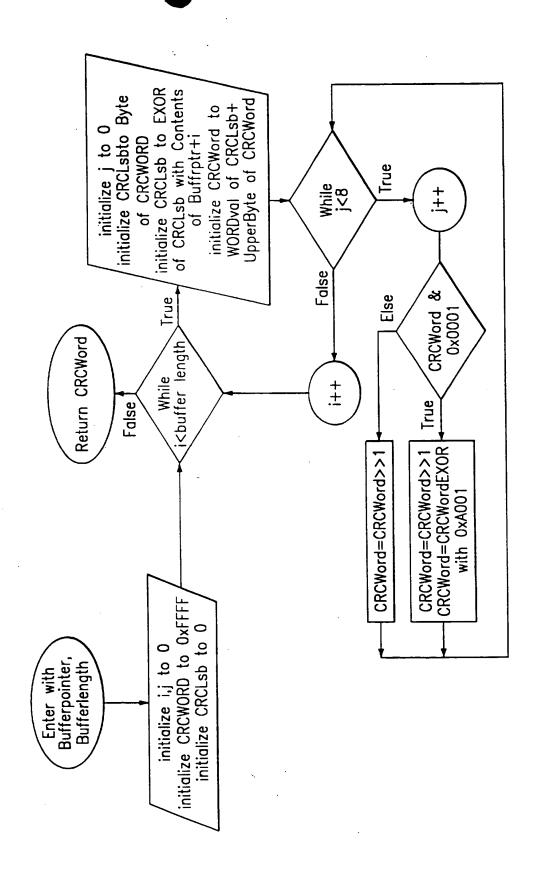


FIG. 96

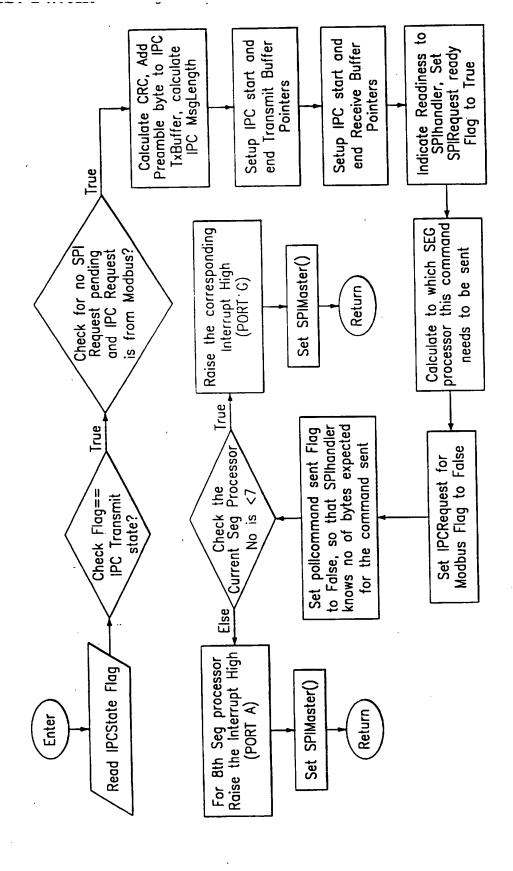


FIG. 97

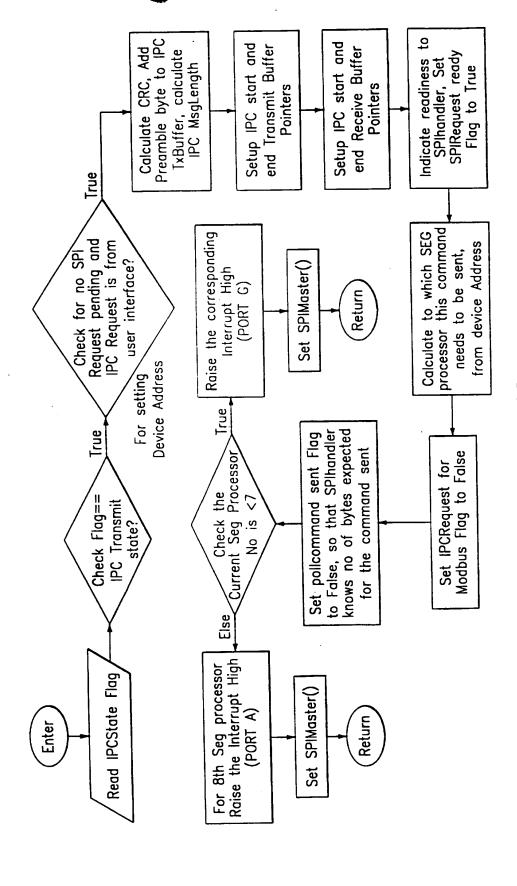


FIG. 98

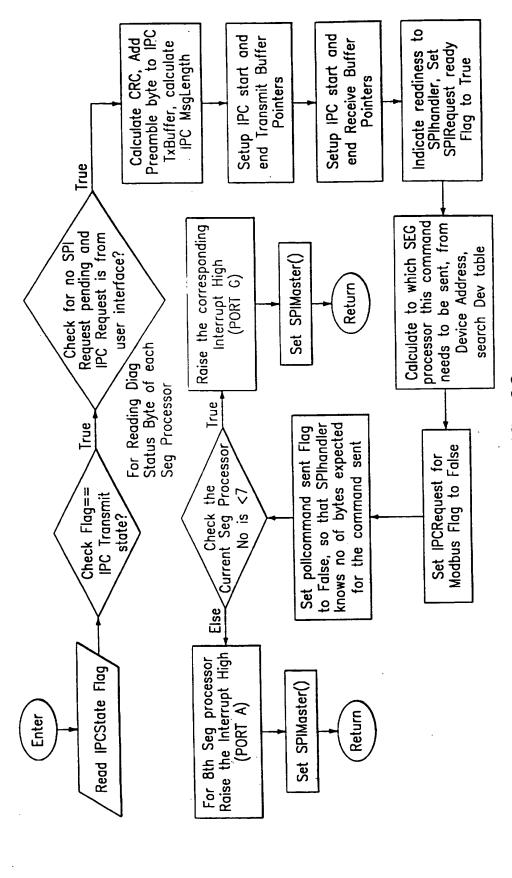
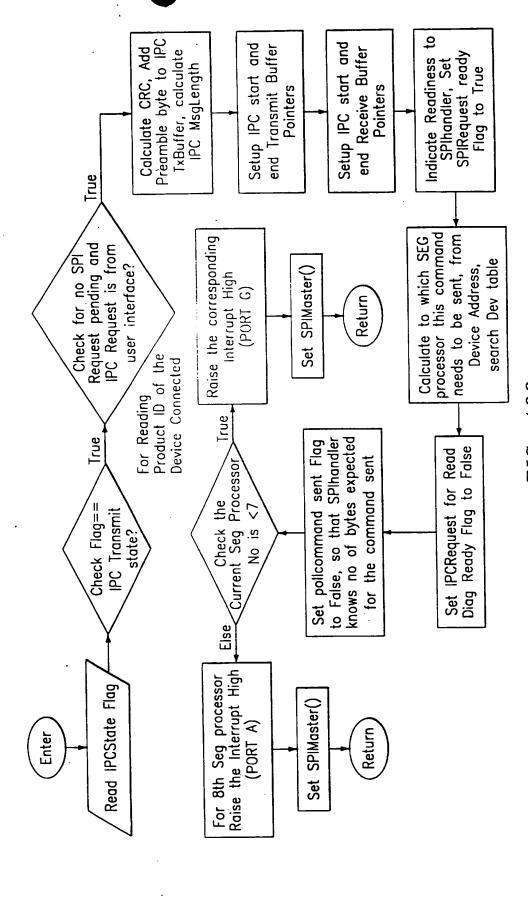


FIG. 99



F.I.G. 100

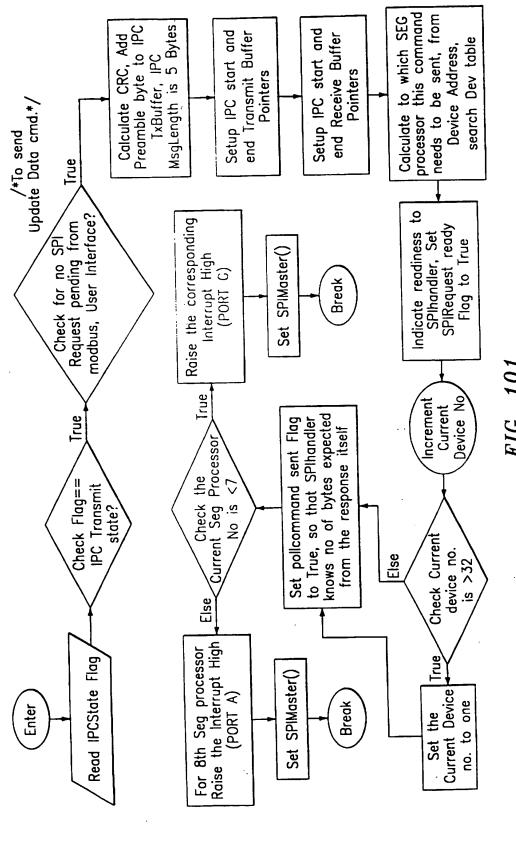
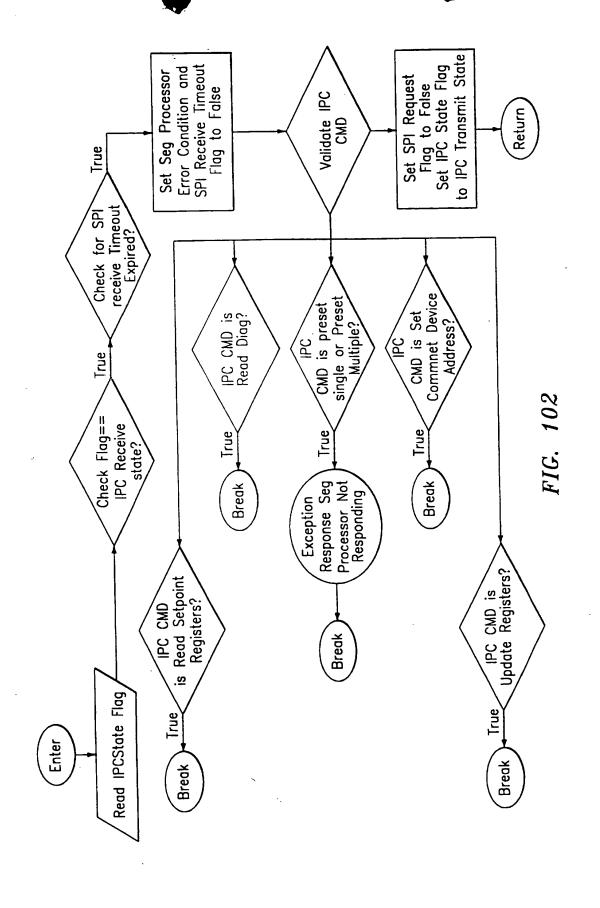
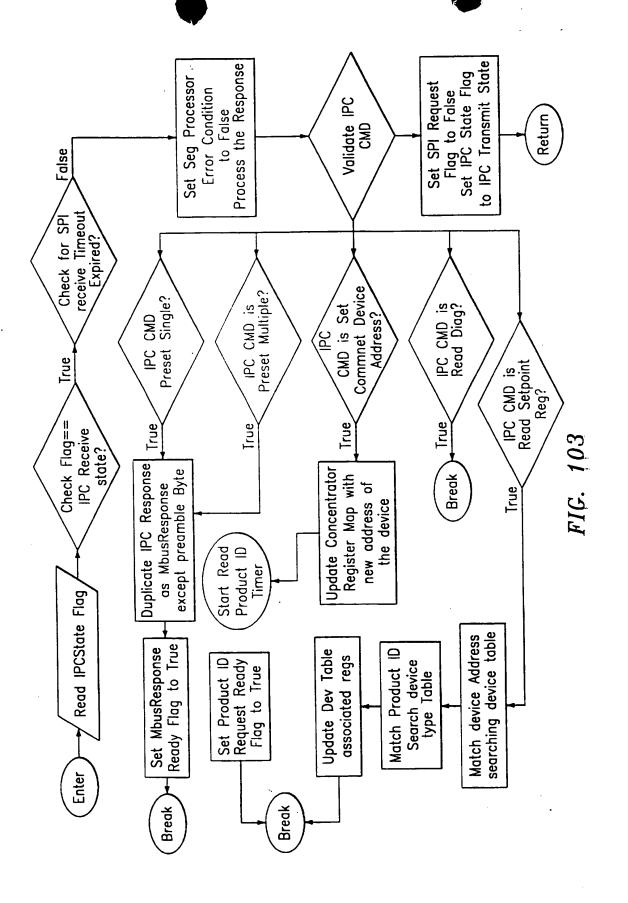
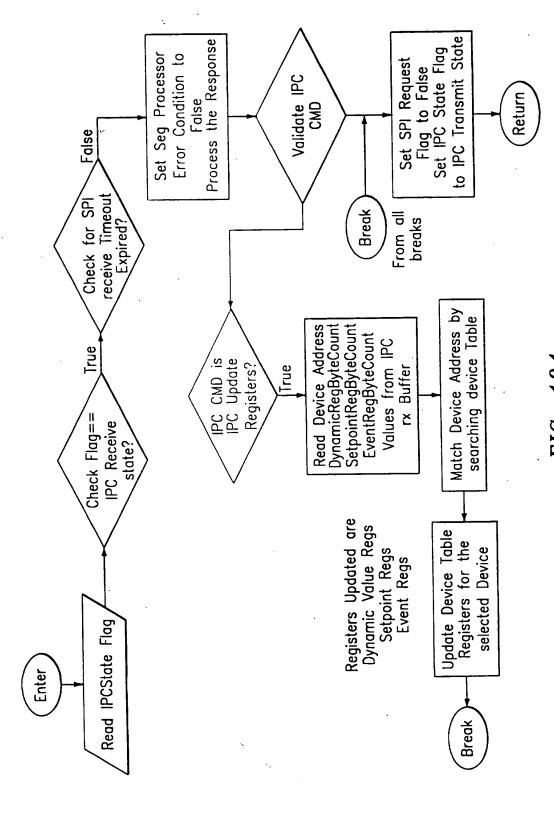


FIG. 101







F1G. 104

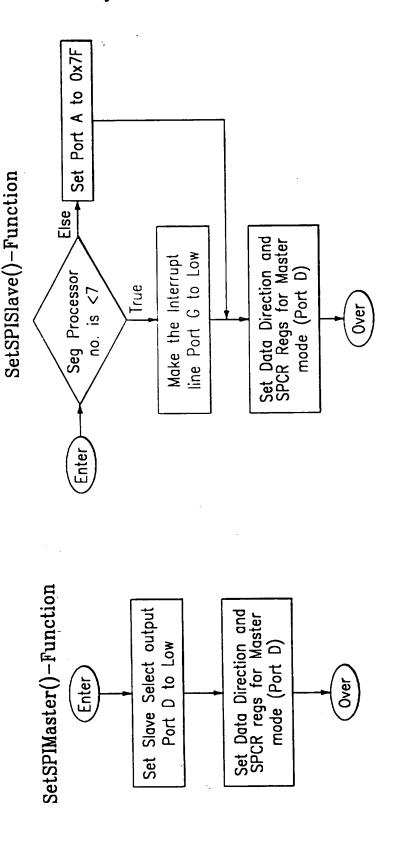


FIG. 105

SendReqForProductId()-Function

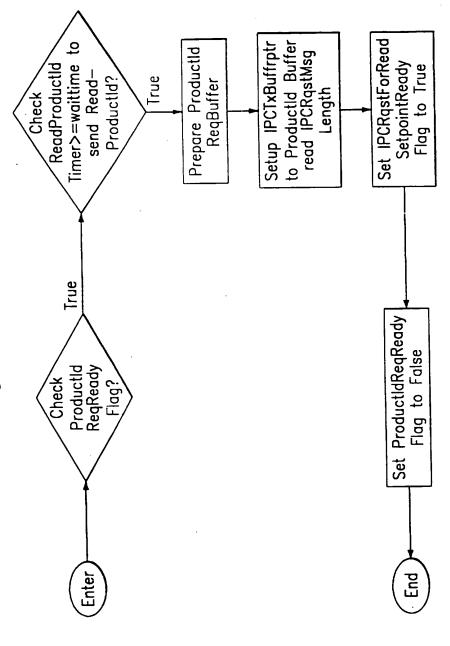
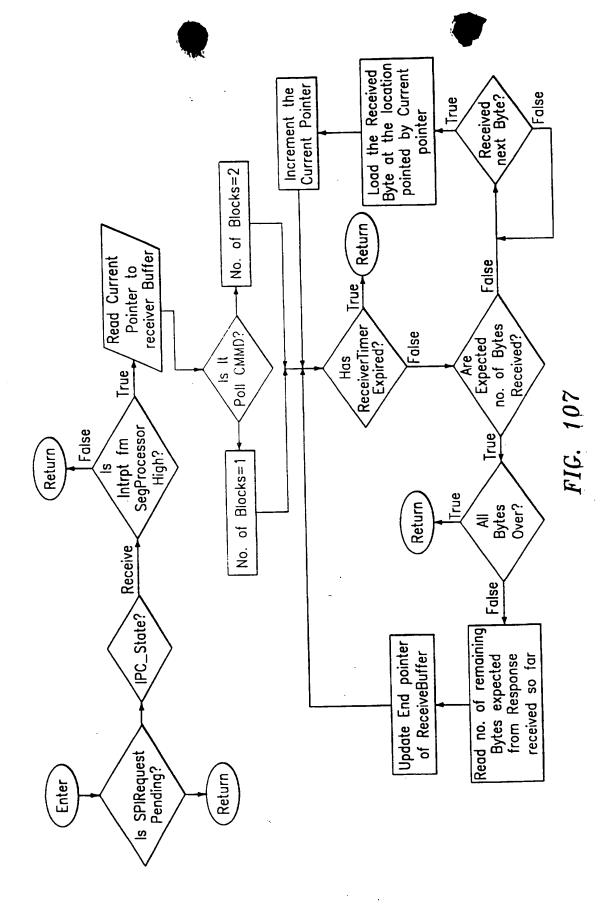


FIG. 106



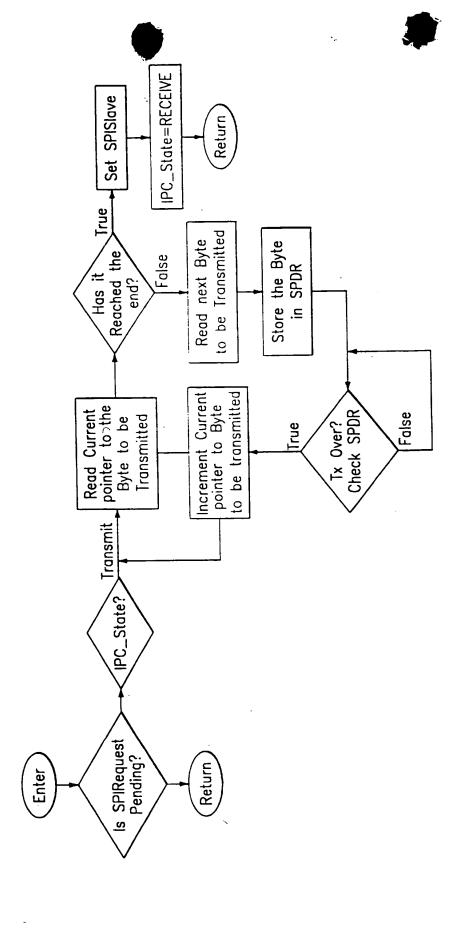


FIG. 108